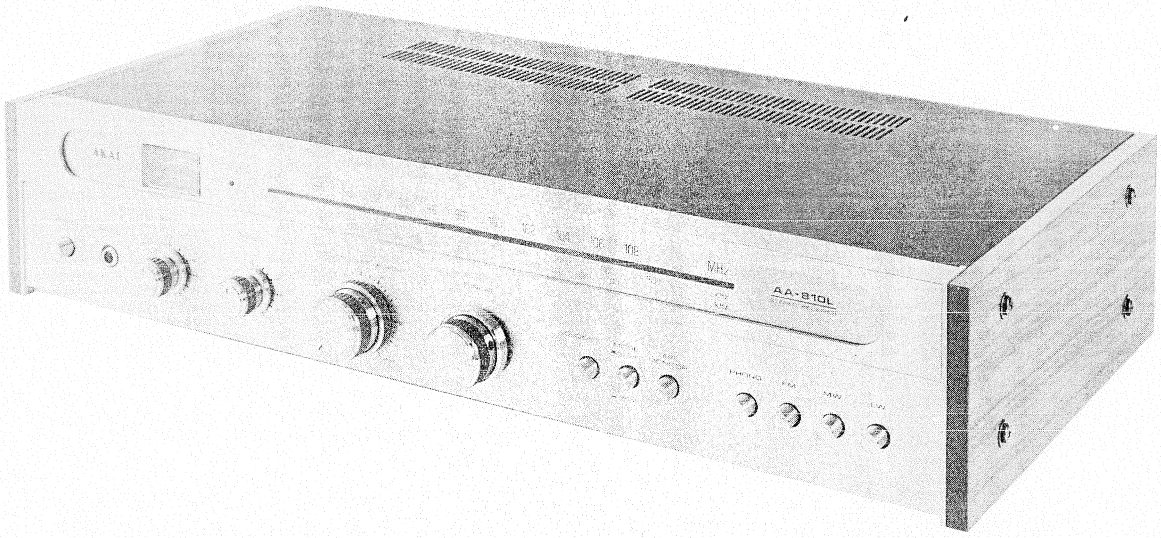
SERVICE MANUAL
PARTS LIST

PRIDE IN QUALITY

AKAI STEREO RECEIVER

MODEL AA-810L

ALSO APPLICABLE TO MODEL AA-810DBL


AKAI
MHz
AA-810L
PHONO
FM
MW
LW

STEREO RECEIVER

MODEL AA-810L

ALSO APPLICABLE TO MODEL AA-810DBL
STEREO RECEIVER

SECTION 1 SERVICE MANUAL 3
SECTION 2 PARTS LIST 17
SECTION 3 SCHEMATIC DIAGRAM 29

SECTION 1

SERVICE MANUAL

TABLE OF CONTENTS

I. SPECIFICATIONS 4
II. DISMANTLING OF UNIT 6
III. ADJUSTMENTS 7
  1. NECESSARY MEASURING INSTRUMENTS 7
  2. CLASSFICATION OF VARIOUS P.C. BOARDS 7
  3. FM TUNER SECTION ADJUSTMENT 9
  4. AM TUNER SECTION ADJUSTMENT 11
  5. DOLBY N.R. ADJUSTMENT 12
  6. MAIN AMP IDLING CURRENT ADJUSTMENT 12
IV. COMPOSITE VIEWS OF COMPONENTS 13

I. SPECIFICATIONS

An asterisk next to a figure indicates the minimum guaranteed performance.

§ AMPLIFIER SECTION

RATED OUTPUT		10W x 2/8 ohm (both channels driven)
HARMONIC DISTORTION		0.8% at rated output
POWER BAND WIDTH (IHF)		20 to 40,000 Hz at 8 ohm
INPUT SENSITIVITY	PHONO	2.5 mV (-50 dBm ±1.5 dB)
	TAPE	140 mV (-15 dBm ±1.5 dB)
RESIDUAL NOISE		Less than 2.5 m V (Less than -50 dBm)
SIGNAL TO NOISE RATIO	PHONO	Better than -40 dBm
	TAPE	Better than -50 dBm
TONE CONTROL	BASS	10 ±2.0 dB at 100 Hz -10 ±2.0 dB at 100 Hz
	TREBLE	10 ±2.0 dB at 10 kHz -10 ±2.0 dB at 10 kHz
LOUDNESS CONTROL		10 ±2.0 dB at 100 Hz 5 ±2.0 dB at 10 kHz
PHONO FREQUENCY RESPONSE		RIAA ±2.0 dB *13 ±2.0 dB at 100 Hz *-13.5 ±2.0 dB at 10 kHz
CHANNEL SEPARATION		Better than 45 dB at 1 kHz
L-R DEVIATION		Within 3 dB (PHONO)
RECORDING OUTPUT	PIN	115 mV(-16.5 dBm ±2 dB)
	DIN	25 mV(-30 dBm ±2 dB)

§ FM TUNER SECTION

FREQUENCY RANGE		88 to 108 MHz *86 to 109 MHz ±1 MHz
DIAL TRACKING ERROR		±250 kHz
SENSITIVITY (IHF)		2 μV *Less than 4 μV (12 dB)
SENSITIVITY DEVIATION		Within 3 dB
IMAGE REJECTION RATIO		Better than 65 dB at 98 MHz *Better than 45 dB at 90, 98, 106 MHz
IF REJECTION RATIO		Better than 90 dB at 98 MHz *Better than 50 dB at 90, 98, 106 MHz
CAPTURE RATIO (IHF)		3 dB *Less than 5 dB
LIMITING SENSTIVITY		Less than 12 dB
SELECTIVITY		Better than 65 dB *Better than 50 dB
SIGNAL TO NOISE RATIO		Better than 70 dB *Better than 55 dB (including carrier leak)
HARMONIC DISTORTION	STEREO	Less than 0.8% *Less than 2.0%
	MONAURAL	Less than 0.4% *Less than 0.8%
FREQUENCY RESPONSE		-13 ±2.0 dB at 10 kHz
STEREO SENSITIVITY		10 to 30 μV (20 to 30 dB ±3 dB)
STEREO SEPARATION		Better than 40 dB *Better than 35 dB
L-R DEVIATION		Within 3 dB
RECORDING OUTPUT	PIN	1V (2 dBm ±2 dB)
	DIN	170 mV (-13 dBm ±2 dB)

§ AM TUNER SECTION

FREQUENCY RANGE	LW	150 to 350 kHz
	MW	515 to 1,650 kHz
DIAL TRACKING ERROR		Within 2.0%
SENSITIVITY (IHF)	LW	300 mV at 260 kHz *560 μV(55 dB) at 400 Hz 30% MOD. DIS 10%
	MW	250 μV at 1 MHz *310 μV(50 dB) at 400 Hz 30% MOD. DIS 10%
SENSITIVITY DEVIATION		Within 6 dB
IMAGE REJECTION RATIO	LW	Better than 30 dB at 260 kHz
	MW	Better than 55 dB at 1 MHz *Better than 30 dB at 1 MHz
IF REJECTION RATIO	LW	Better than 50 dB at 260 kHz *Better than 30 dB at 260 kHz
	MW	Better than 45 dB at 1 MHz *Better than 40 dB at 1 MHz
SELECTIVITY	LW	Better than 30 dB ±10 kHz
	MW	Better than 30 dB ±10 kHz
SIGNAL TO NOISE RATIO		Better than 50 dB *Better than 40 dB
DISTORTION FACTOR	LW	Less than 1% *Less than 3% at 74 dB input
	MW	Less than 1% *Less than 1% at 74 dB input
RECORDING OUTPUT	PIN	150 mV (-14 dBm ±2 dB)
	DIN	35 mV (-27 dBm ±2 dB)

§ OTHER

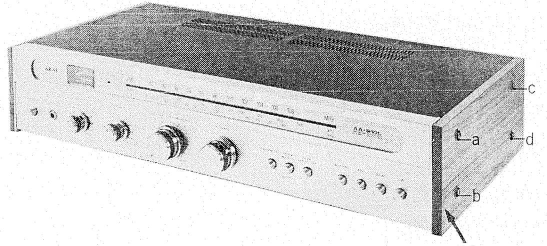
TRANSISTOR		2SA720(Q)(R) ...... 4(4)	2SC1312R(G)(H) ...... 4(4)
		2SC454(B)(C) ...... 3(3)	2SC1313(G)(H) .... 4(4)
		2SC536(E)(F) ....3(3)	2SC1318(Q)(R) .... 2(2)
		2SC711(E)(F) ...... 0(1)	2SC1647(S)(E)(U) ...... 0(1)
		2SC839(F)(H) ...... 3(3)	2SD313(D)(E) .... 5(5)
I.C.	TA7061AP	TA7061AP .... 1(1)	NE545B .... 0(2)
		LA3300 .... 1(1)	
DIODE		1N34A .... 3(5)	10D-1 .... 1(1)
		1N60 .... 1(1)	WG599 .... 2(2)
		1S2076 .... 2(2)	WZ130 .... 1(1)
VARISTOR		VD-1222 2	
POWER SOURCE		100 to 240V A.C. 50/60 Hz	
POWER CONSUMPTION		100W	
DIMENSIONS		527(W) x 107(H) x 296(D)mm (20.8" x 4.2" x 11.7")	
WEIGHT		AA-810L: 8 kg (17.6 lbs.) AA-810DBL: 8.2 kg (18.0 lbs.)	

NOTE:
1. **Transistors, I.C. and Diodes for model AA-810DBL are shown in parentheses.**
2. **Specifications subject to change without notice.**

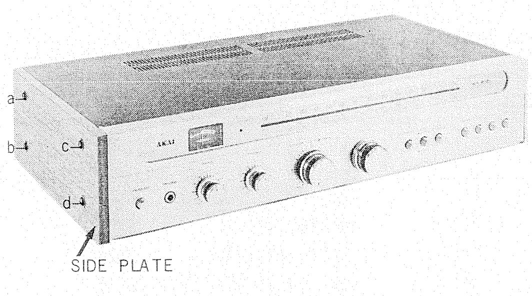
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.

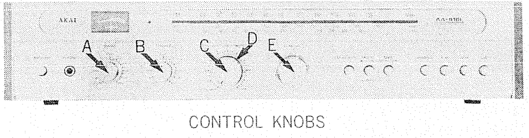
1


c
a
d
b
SIDE PLATE

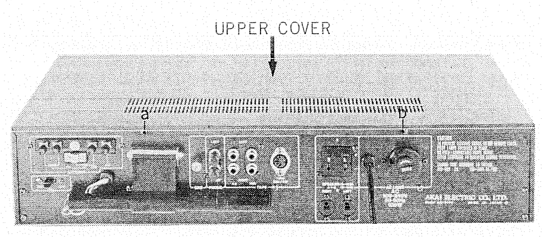
2


a
b
c
d
SIDE PLATE

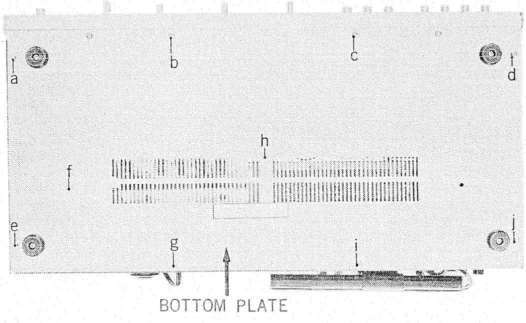
3


A
B
C
D
E
CONTROL KNOBS

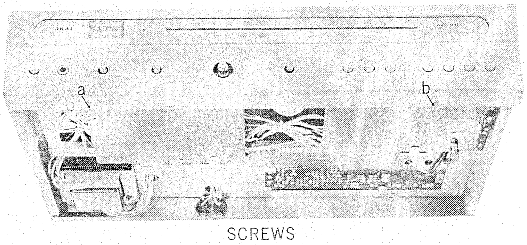
4


UPPER COVER
a
b

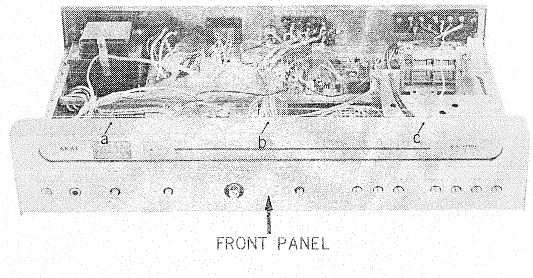
5


a
b
c
d
h
f
e
g
i
j
BOTTOM PLATE

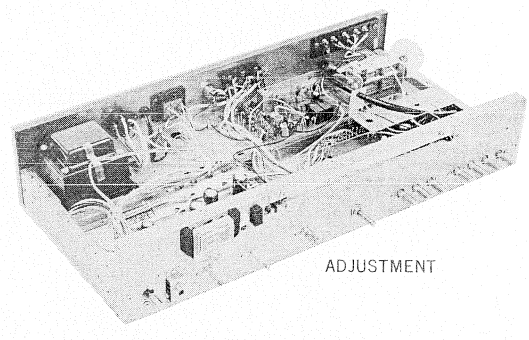
6



7


a
b
c
FRONT PANEL

8


ADJUSTMENT

III. ADJUSTMENTS

1. NECESSARY MEASURING INSTRUMENTS

MEASURING INSTRUMENTS	MODEL	FOR
AM-FM RADIO IF GENESCOPE	Meguro MSW-721C	FM-IF, Matching and AM-IF Adjustment
FM STANDARD SIGNAL GENERATOR	Meguro MSG-278G	FM Tracking, Sensitivity Adjustment
FM STEREO MODULATOR	Meguro MSG-211E	FM Stereo Separation Adjustment
AM STANDARD SIGNAL GENERATOR	Meguro MSG-221C	AM Tracking, Sensitivity Adjustment
AM LOOP ANTENNA	Meguro MLA-1001B	AM Tracking, Sensitivity Adjustment
HIGH SENSITIVITY A.C. VOLTMETER	Kikusui 183E	FM/AM Tracking, Sensitivity and FM Separation Adjustment
DISTORTION METER	Shibasoku 760C	FM/AM Tracking, Sensitivity Adjustment
D.C. AMPERE METER OR TESTER		Main Amplifier Adjustment
OSCILLOSCOPE		
FREQUENCY COUNTER	National VP-475	Dolby Tone Frequency Adjustment

2. CLASSIFICATION OF VARIOUS P.C. BOARDS

P.C. BOARD	AA-810L	AA-810DBL
MAIN AMPLIFIER P.C. BOARD	A8-5031	A8-5031
FM P.C. BOARD	A8-5032	A8-5032
AM P.C. BOARD	A8-5033	A8-5212
JUMPER P.C. BOARD	A8-5213	A8-5213
PUSH SW. P.C. BOARD		A8-5217
DOLBY N.R. P.C. BOARD		A8-5218

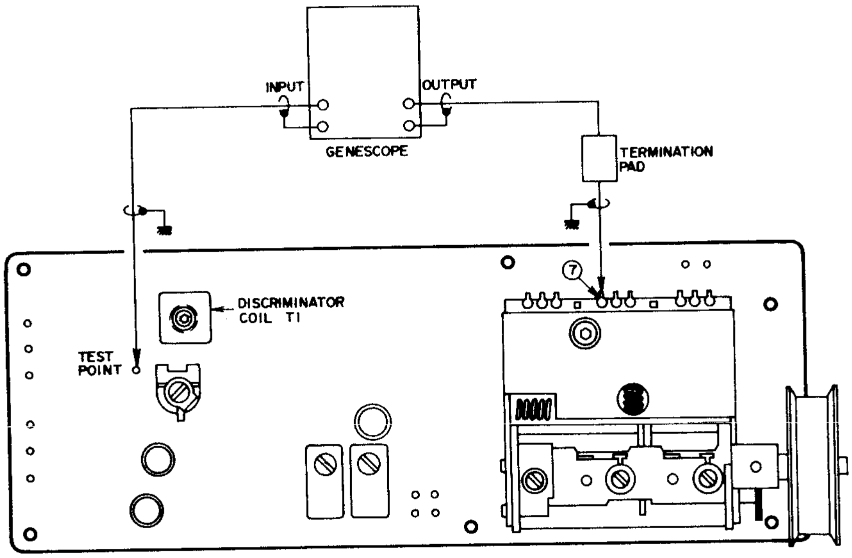


Fig. 1 IF ADJUSTMENT

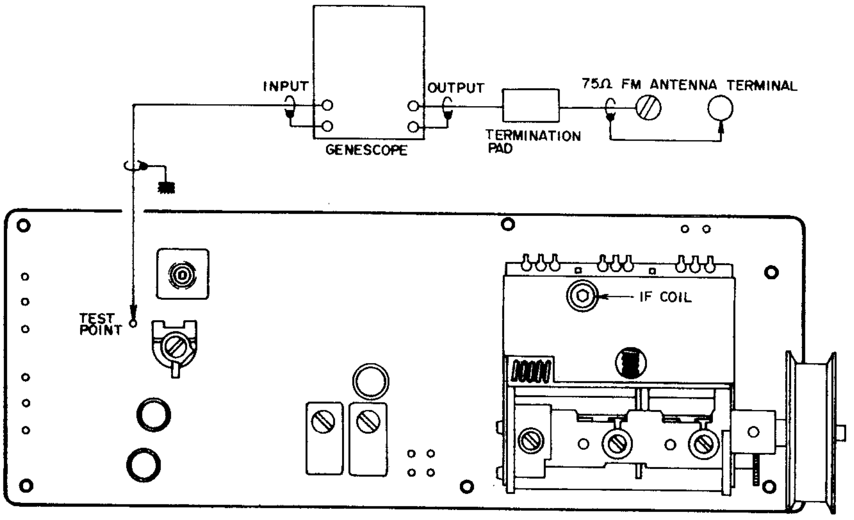

INPUT
OUTPUT
GENESCOPE
TERMINATION PAD
75Ω FM ANTENNA TERMINAL
TEST POINT
IF COIL

Fig. 2 MATCHING ADJUSTMENT

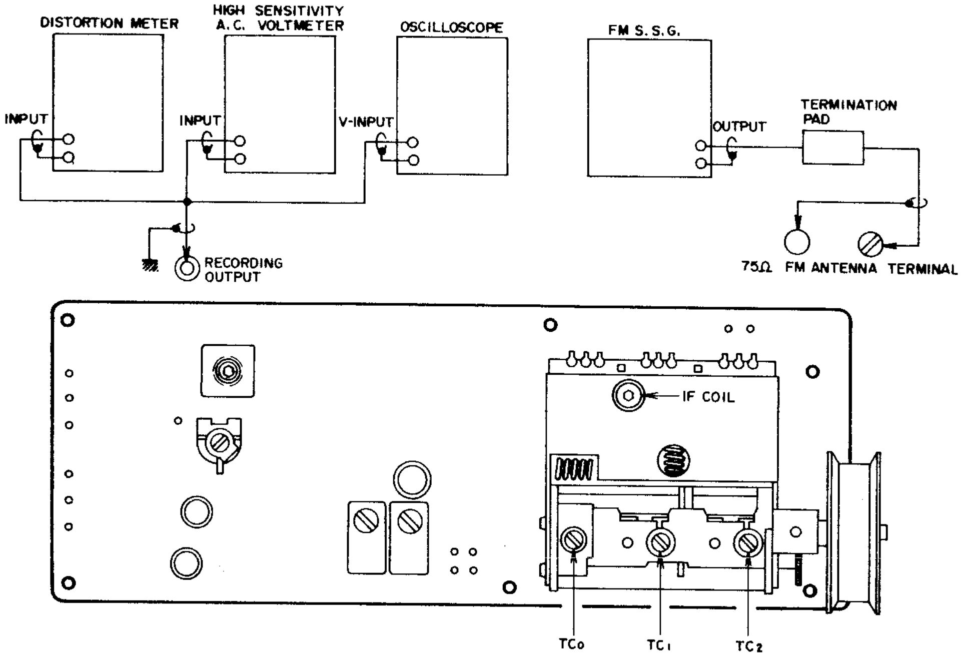

DISTORTION METER
HIGH SENSITIVITY A.C. VOLTMETER
OSCILLOSCOPE
FM S.S.G.
INPUT
INPUT
V-INPUT
OUTPUT
TERMINATION PAD
RECORDING OUTPUT
75Ω FM ANTENNA TERMINAL
IF COIL
TCo
TC1
TC2

Fig. 3 TRACKING, SENSITIVITY ADJUSTMENT

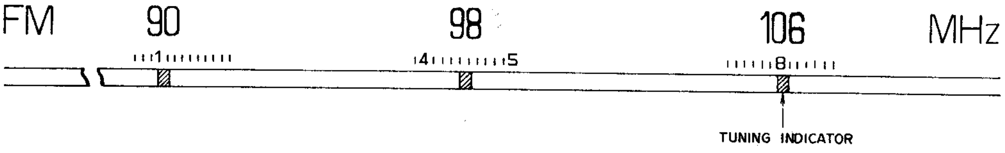

FM
90
98
106
MHz
1
4
5
8
TUNING INDICATOR

Fig. 4

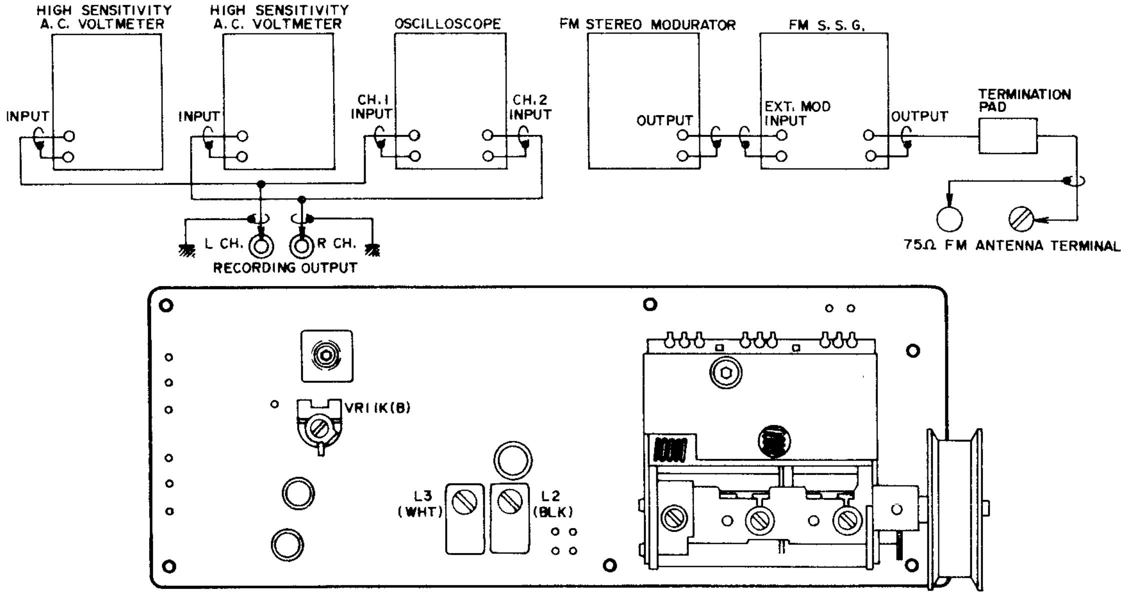

HIGH SENSITIVITY A.C. VOLTMETER
HIGH SENSITIVITY A.C. VOLTMETER
OSCILLOSCOPE
FM STEREO MODURATOR
FM S.S.G.
INPUT
INPUT
CH.1 INPUT
CH.2 INPUT
OUTPUT
EXT. MOD INPUT
OUTPUT
TERMINATION PAD
L CH.
R CH.
RECORDING OUTPUT
75Ω FM ANTENNA TERMINAL
VR1 1K(B)
L3 (WHT)
L2 (BLK)

Fig. 5 STEREO SEPARATION ADJUSTMENT

3. FM TUNER SECTION ADJUSTMENT

ADJUSTMENT ITEM	ADJUSTMENT POINT	REFERENCE DIAGRAM	REMARKS
IF ADJUSTMENT	T1	Fig. 1	Set Tuning Indicator to extreme right end of dial. Adjust S Curve height and linearity.
MATCHING ADJUSTMENT	Front End IF Coil	Fig. 2	Set Tuning Indicator to extreme right end of dial. Adjust S Curve height and minimize noise element.
TRACKING ADJUSTMENT	TC0	Figs. 3,4	Set Tuning Indicator to 106 MHz and adjust for maximum output and minimum distortion. Confirm tracking at 90 MHz and 98 MHz. (Tracking Error: ±250 kHz)
SENSITIVITY ADJUSTMENT	TC1, TC2	Figs. 3,4	Set Tuning Indicator to 106 MHz and adjust for minimum distortion.
	Front End IF Coil	Fig. 3	Set Tuning Indicator to 98 MHz and adjust for minimum distortion.
STEREO SEPARATION ADJUSTMENT	L2(BLK) L3(WHT)	Fig. 5	Set Stereo Modulator to SUB mode and adjust for minimum distortion.
	VR1 1 k(B)	Fig. 5	Set Stereo Modulator to LEFT mode and adjust for minimum RIGHT channel output.
TUNING METER CENTER ADJUSTMENT	T1	Fig. 3	Adjust upper core of T1 so that the Tuning Meter Indicator comes to the center of the meter and adjust the lower core of T1 for minimum distortion.

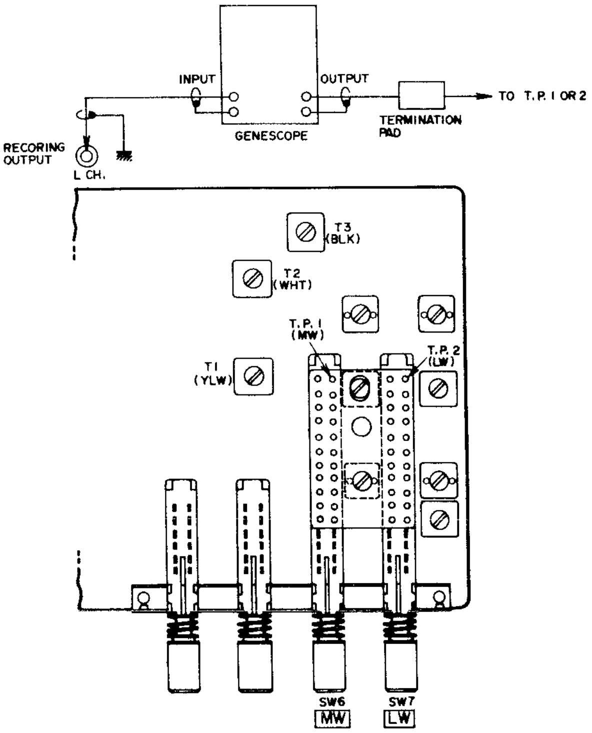

INPUT
OUTPUT
TO T.P. 1 OR 2
TERMINATION PAD
GENESCOPE
RECORING OUTPUT
L CH.
T3 (BLK)
T2 (WHT)
T.P. 1 (MW)
T.P. 2 (LW)
T1 (YLW)
SW6
MW
SW7
LW

Fig. 6 IF ADJUSTMENT

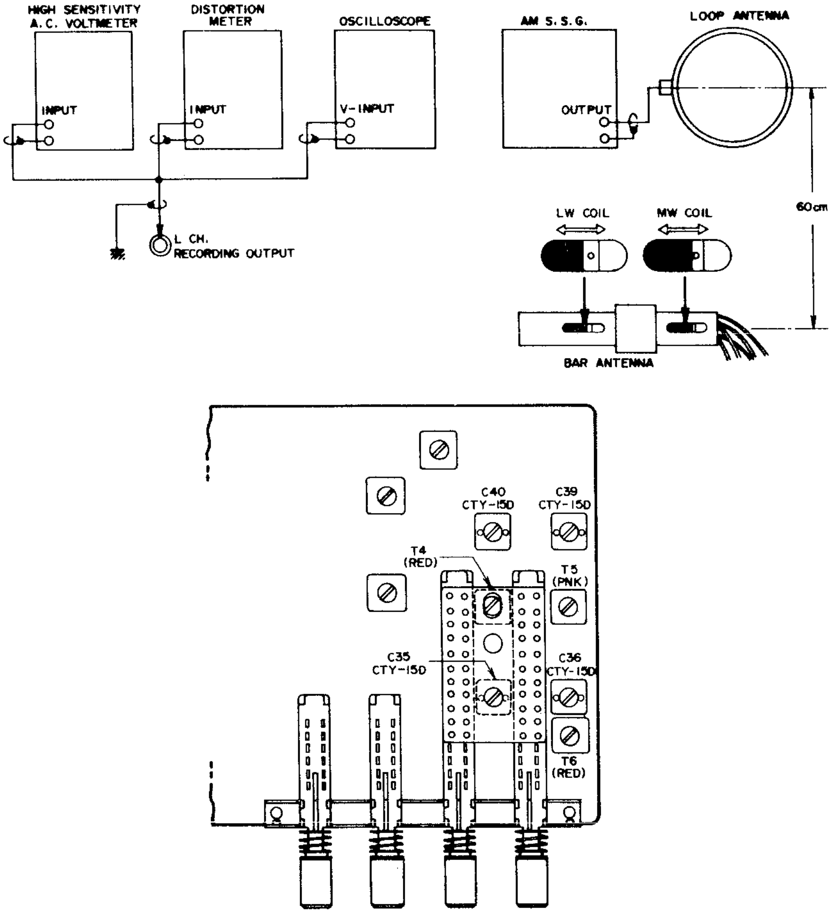

HIGH SENSITIVITY A.C. VOLTMETER
DISTORTION METER
OSCILLOSCOPE
AM S.S.G.
LOOP ANTENNA
INPUT
INPUT
V-INPUT
OUTPUT
L CH. RECORDING OUTPUT
LW COIL
MW COIL
60cm
BAR ANTENNA
C40 CTY-15D
C39 CTY-15D
T4 (RED)
T5 (PNK)
C35 CTY-15D
C36 CTY-15D
T6 (RED)

Fig. 7 TRACKING, SENSITIVITY, IF TRAP ADJUSTMENT

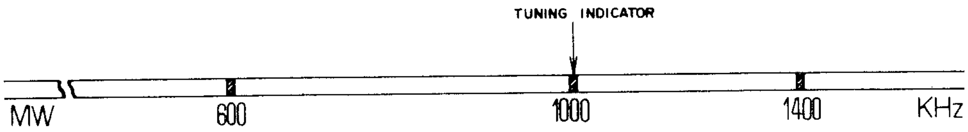


Fig. 8

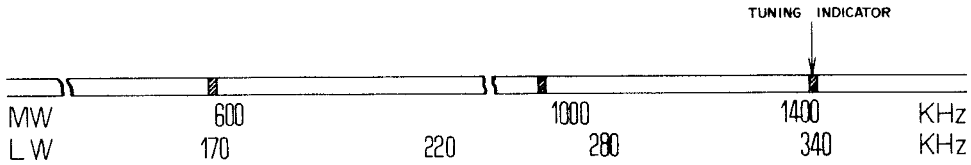


Fig. 9

4. AM TUNER SECTION ADJUSTMENT

ADJUSTMENT ITEM		ADJUSTMENT POINT	REFERENCE DIAGRAM	REMARKS
IF ADJUSTMENT		T3 (BLK) T2 (WHT) T1 (YLW)	Fig. 6	Set Tuning Indicator to extreme right end of dial and adjust single peaking characteristics to maximum height.
TRACKING	MW	T4 (RED)	Figs. 7,8	Set Tuning Indicator to 600 kHz and adjust for maximum output and minimum distortion.
		C40 CTY-15D	Figs. 7,8	Set Tuning Indicator to 1,400 kHz and adjust for maximum output and minimum distortion. Confirm tracking at 1,000 kHz. (Tracking Error: Within 2.0%)
TRACKING ADJUSTMENT		T5 (PNK)	Figs. 7,9	Set Tuning Indicator to 170 kHz and adjust for maximum output and minimum distortion.
		C39 CTY-15D	Figs. 7,9	Set Tuning Indicator to 340 kHz and adjust for maximum output and minimum distortion. Confirm tracking at 260 kHz. (Tracking Error: Within 2.0%)
SENSITIVITY ADJUSTMENT	MW	Coil of Bar Antenna (for MW use)	Figs. 7,8	Set Tuning Indicator to 600 kHz and adjust for maximum output and minimum distortion.
		C35 CTY-15D	Figs. 7,8	Set Tuning Indicator to 1,400 kHz and adjust for maximum output and minimum distortion. Confirm sensitivity at 1,000 kHz.
	LW	Coil of Bar Antenna (for LW use)	Figs. 7,9	Set Tuning Indicator to 170 kHz and adjust for maximum output and minimum distortion.
		C36 CTY-15D	Figs. 7,9	Set Tuning Indicator to 340 kHz and adjust for maximum output and minimum distortion. Confirm sensitivity at 260 kHz.
IF TRAP ADJUSTMENT (LW)		T6 (RED)	Figs. 7,9	Set AM S.S.G. oscillation frequency to 464 kHz and Level to 100 dB. Set Tuning Indicator to 340 kHz and adjust for minimum output.

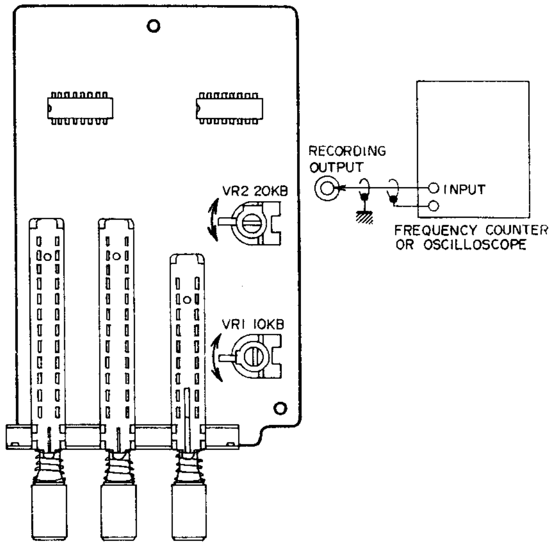

RECORDING OUTPUT
VR2 20KB
INPUT
FREQUENCY COUNTER OR OSCILLOSCOPE
VR1 10KB

Fig. 10

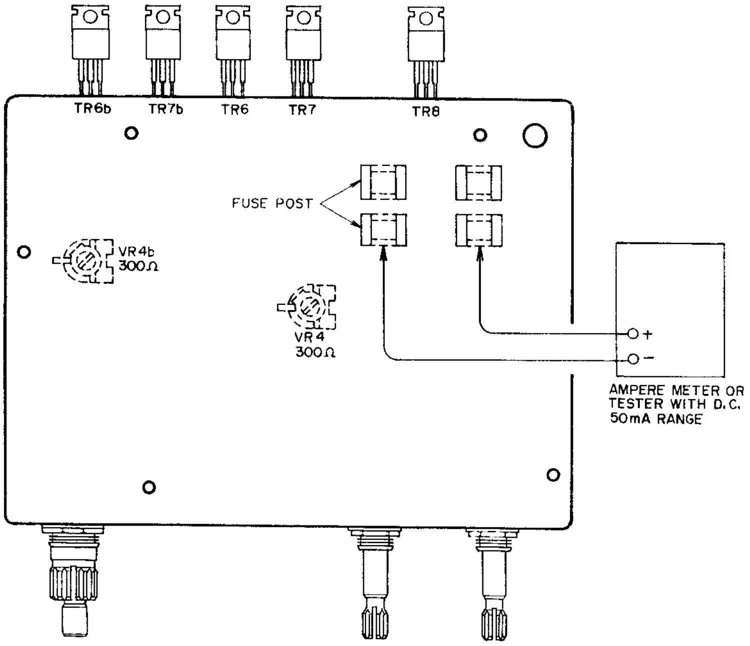

TR6b
TR7b
TR6
TR7
TR8
FUSE POST
VR4b 300Ω
VR4 300Ω
+
−
AMPERE METER OR TESTER WITH D.C. 50mA RANGE

Fig. 11

5. DOLBY N.R. ADJUSTMENT

1) DOLBY TONE FREQUENCY ADJUSTMENT

Connect a Frequency Counter or Oscilloscope to Recording Output Terminal and adjust semi-fixed resistor VR1 10 k(B) shown in Fig. 10 to obtain a 400 Hz oscillation Frequency.

2) DOLBY TONE LEVEL ADJUSTMENT

Adjust semi-fixed resistor VR2 20 k(B) shown in Fig. 10 to obtain a VU Meter indication of "0" VU.

6. MAIN AMP IDLING CURRENT ADJUSTMENT

As shown in Fig. 11, connect an Ampere Meter or Tester to the Fuse Post Terminals. Adjust semi-fixed resistors VR4 300Ω (left channel) and VR4b 300Ω (right channel) to obtain an idling current of 30 to 35 mA.

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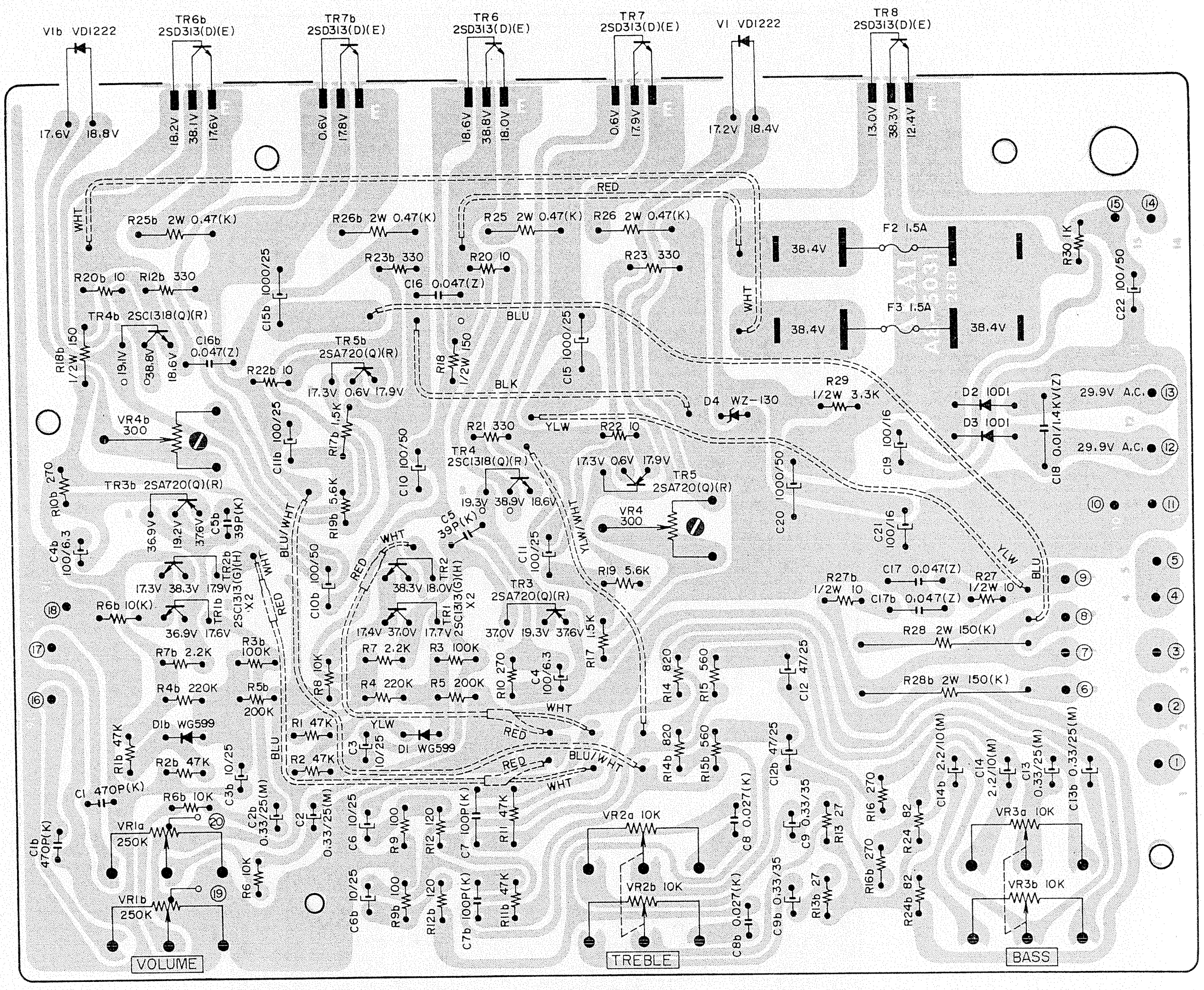
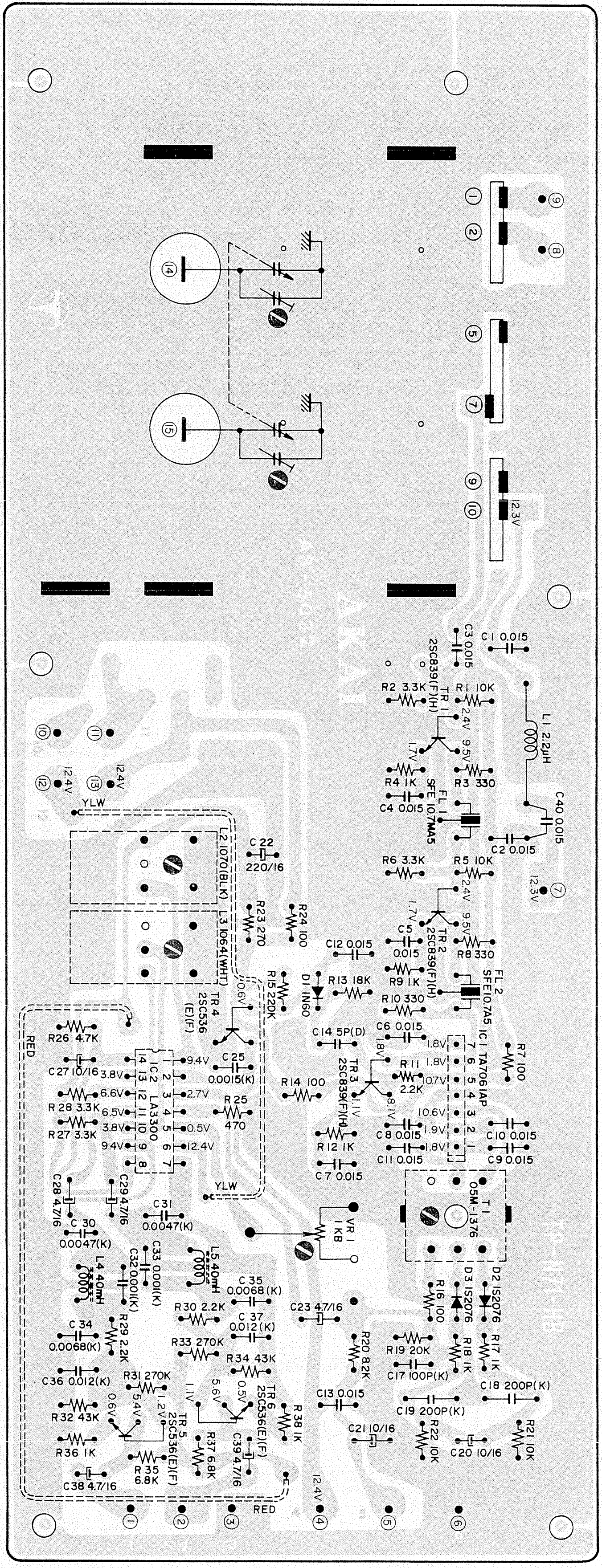
IV. COMPOSITE VIEWS OF COMPONENTS

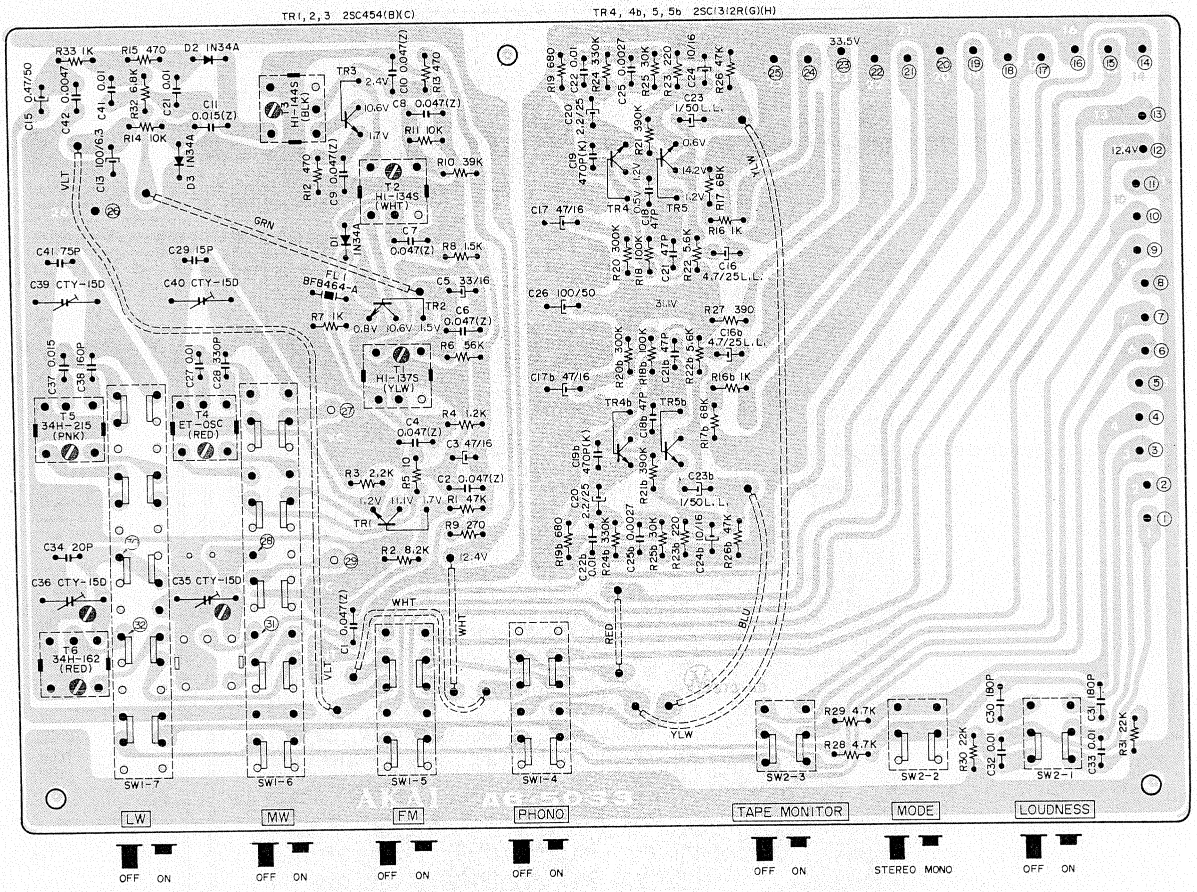
1. MAIN AMP. P.C. BOARD (A8-5031)


V1b VD1222
TR6b 2SD313(D)(E)
TR7b 2SD313(D)(E)
TR6 2SD313(D)(E)
TR7 2SD313(D)(E)
V1 VD1222
TR8 2SD313(D)(E)
17.6V 18.8V
18.2V 38.1V 17.6V
0.6V 17.8V
18.6V 38.8V 18.0V
0.6V 17.9V
17.2V 18.4V
13.0V 38.3V 12.4V
E
RED
WHT
R25b 2W 0.47(K)
R26b 2W 0.47(K)
R25 2W 0.47(K)
R26 2W 0.47(K)
R20b 10
R12b 330
R23b 330
R20 10
R23 330
C16 0.047(Z)
C15b 1000/25
TR4b 2SC1318(Q)(R)
R18b 1/2W 150
19.1V 38.8V 18.6V
C16b 0.047(Z)
R22b 10
TR5b 2SA720(Q)(R)
17.3V 0.6V 17.9V
R18 1/2W 150
BLU
BLK
C15 1000/25
F2 1.5A
F3 1.5A
38.4V
38.4V
38.4V
R30 1K
C22 100/50
⑮ ⑭
VR4b 300
C11b 100/25
R17b 1.5K
C10 100/50
R21 330
TR4 2SC1318(Q)(R)
YLW
R22 10
D4 WZ-130
R29 1/2W 3.3K
D2 10D1
D3 10D1
C18 0.01/1.4KV(Z)
29.9V A.C. ⑬
29.9V A.C. ⑫
R10b 270
TR3b 2SA720(Q)(R)
36.9V 19.2V 37.6V
C5b 39P(K)
C4b 100/6.3
R19b 5.6K
BLU/WHT
19.3V 38.9V 18.6V
C5 39P(K)
WHT
C11 100/25
17.3V 0.6V 17.9V
TR5 2SA720(Q)(R)
YLW/WHT
VR4 300
C20 1000/50
C19 100/16
C21 100/16
⑩ ⑪
17.3V 38.3V 17.9V
TR2b
TR1b 2SC1313(G)(H) X2
R6b 10(K)
36.9V 17.6V
⑱
C10b 100/50
RED
38.3V 18.0V
TR2
TR1 2SC1313(G)(H) X2
TR3 2SA720(Q)(R)
R19 5.6K
R27b 1/2W 10
C17 0.047(Z)
C17b 0.047(Z)
R27 1/2W 10
YLW
BLU
⑨ ⑤ ④ ⑧
R28 2W 150(K)
17.4V 37.0V 17.7V
37.0V 19.3V 37.6V
R17 1.5K
⑰
R7b 2.2K
R3b 100K
R7 2.2K
R3 100K
R8 10K
R10 270
C4 100/6.3
R14 820
R15 560
C12 47/25
⑦ ③
R4b 220K
R5b 200K
R4 220K
R5 200K
R28b 2W 150(K)
⑯ ⑥ ②
D1b WG599
R1b 47K
R1 47K
YLW
D1 WG599
C3 10/25
R2b 47K
R2 47K
C3b 10/25
R14b 820
R15b 560
C12b 47/25
C14b 2.2/10(M)
C14 2.2/10(M)
C13 0.33/25(M)
C13b 0.33/25(M)
①
C1 470P(K)
R6b 10K
C2b 0.33/25(M)
C2 0.33/25(M)
C6 10/25
R9 100
R12 120
C7 100P(K)
R11 47K
C8 0.027(K)
C9 0.33/35
R13 27
R16 270
R24 82
VR2a 10K
VR3a 10K
C1b 470P(K)
VR1a 250K
⑳
R6 10K
⑲
VR1b 250K
C6b 10/25
R9b 100
R12b 120
C7b 100P(K)
R11b 47K
VR2b 10K
C8b 0.027(K)
C9b 0.33/35
R13b 27
R16b 270
R24b 82
VR3b 10K
VOLUME
TREBLE
BASS

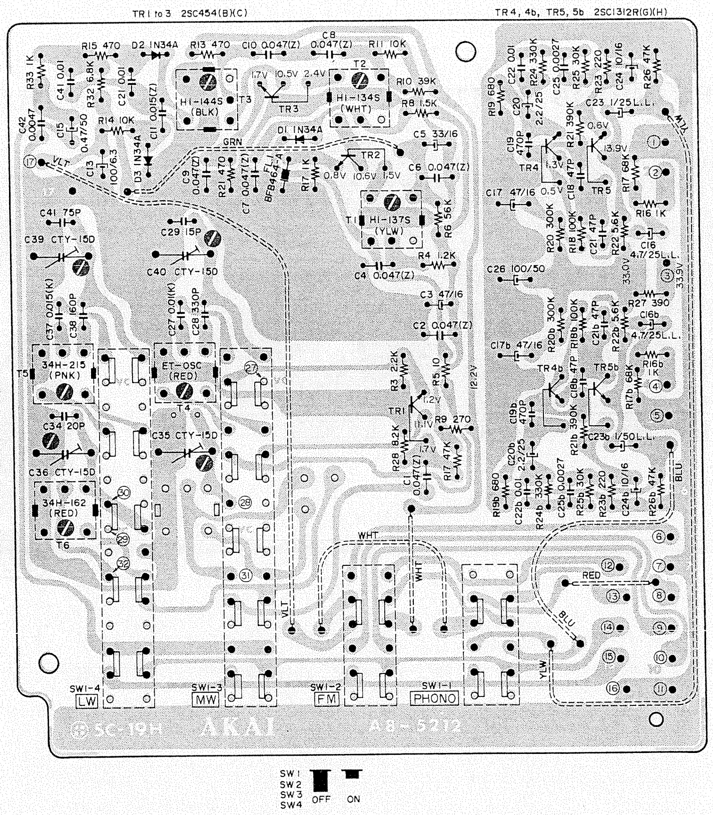
2. FM P.C. BOARD (A8-5032)


AKAI
A8-5032
TP-N71-HB
C1 0.015
C3 0.015
2SC839(F)(H)
TR 1
R2 3.3K
R1 10K
L1 2.2µH
R4 1K
R3 330
C4 0.015
FL 1
SFE10.7MA5
C40 0.015
C2 0.015
12.3V
R6 3.3K
R5 10K
TR 2
2SC839(F)(H)
C5 0.015
R8 330
R9 1K
FL 2
SFE10.7A5
R10 330
C12 0.015
R13 18K
D1 1N60
R15 220K
R24 100
R23 270
C22 220/16
L2 10701(BLK)
L3 10641(WHT)
YLW
12.4V
TR 4
2SC536 (E)(F)
C14 5P(D)
C6 0.015
IC1 TA7061AP
R7 100
TR 3
2SC839(F)(H)
R11 2.2K
R14 100
R12 1K
C7 0.015
C8 0.015
C11 0.015
C10 0.015
C9 0.015
T1 05M-1376
VR 1 1KB
IC2 LA3300
R26 4.7K
C27 10/16
R28 3.3K
R27 3.3K
C25 0.0015(K)
R25 470
C28 4.7/16
C29 4.7/16
C30 0.0047(K)
C31 0.0047(K)
L4 40mH
L5 40mH
C33 0.001(K)
C32 0.001(K)
C35 0.0068(K)
C23 47/16
D2 1S2076
D3 1S2076
R16 100
R30 2.2K
C37 0.012(K)
C34 0.0068(K)
R29 2.2K
R33 270K
R34 43K
R20 8.2K
R19 20K
R18 1K
R17 1K
C17 100P(K)
C36 0.012(K)
R31 270K
C18 200P(K)
C13 0.015
C19 200P(K)
TR 6
2SC536(E)(F)
R38 1K
R32 43K
TR 5
2SC536(E)(F)
C21 10/16
R22 10K
R21 10K
C20 10/16
R36 1K
R37 6.8K
C39 4.7/16
R35 6.8K
C38 4.7/16
RED
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮

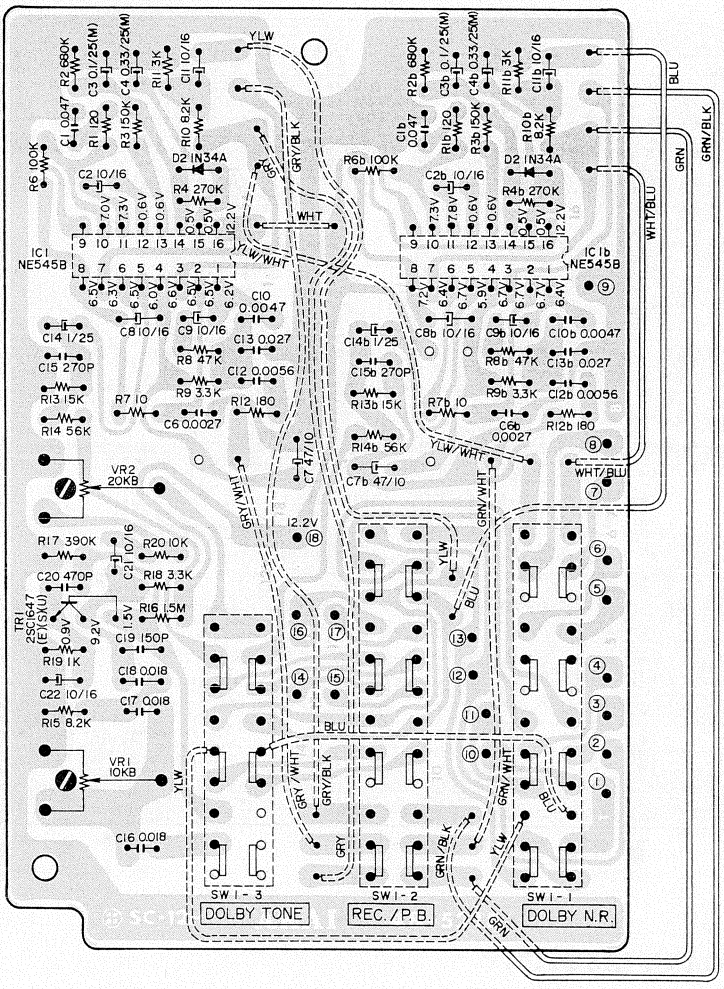
3. AM P.C. BOARD (A8-5033)


TR1, 2, 3 2SC454(B)(C)
TR4, 4b, 5, 5b 2SC1312R(G)(H)
R33 1K
R15 470
D2 1N34A
C15 0.47/50
C42 0.0047
C41 0.01
R32 6.8K
C21 0.01
C11 0.015(Z)
R14 10K
C13 100/6.3
D3 1N34A
VLT
GRN
TR3
T3 HI-144S (BLK)
C10 0.047(Z)
R13 470
C8 0.047(Z)
R11 10K
R12 470
C9 0.047(Z)
T2 HI-134S (WHT)
R10 39K
D1 1N34A
C7 0.047(Z)
R8 1.5K
C41 75P
C29 15P
C39 CTY-15D
C40 CTY-15D
FL BF8464-A
C5 33/16
TR2
C6 0.047(Z)
R7 1K
T1 HI-137S (YLW)
R6 56K
C37 0.015
C38 160P
C27 0.01
C28 330P
T5 34H-215 (PNK)
T4 ET-OSC (RED)
C4 0.047(Z)
R4 1.2K
C3 47/16
R3 2.2K
R5 10
C2 0.047(Z)
R1 47K
TR1
R9 270
R2 8.2K
12.4V
C34 20P
C36 CTY-15D
C35 CTY-15D
T6 34H-162 (RED)
C1 0.047(Z)
WHT
R19 680
C22 0.01
R24 330K
C25 0.0027
R25 30K
R23 220
C24 10/16
R26 47K
C20 2.2/25
C23 1/50L.L.
C19 470P(K)
R21 390K
TR4
TR5
R17 68K
C17 47/16
R16 1K
R20 300K
R18 100K
C21 47P
R22 5.6K
C16 4.7/25L.L.
C26 100/50
31.1V
R27 390
C16b 4.7/25L.L.
C17b 47/16
R20b 300K
R18b 100K
C21b 47P
R22b 5.6K
R16b 1K
TR4b
TR5b
C18b 47P
C19b 470P(K)
R21b 390K
R17b 68K
C23b 1/50L.L.
R19b 680
C22b 0.01
R24b 330K
C25b 0.0027
R25b 30K
R23b 220
C24b 10/16
R26b 47K
RED
BLU
YLW
33.5V
12.4V
R29 4.7K
R28 4.7K
C30 180P
C32 0.01
R30 22K
C31 180P
C33 0.01
R31 22K
SW1-7
SW1-6
SW1-5
SW1-4
SW2-3
SW2-2
SW2-1
AKAI A8-5033
LW
MW
FM
PHONO
TAPE MONITOR
MODE
LOUDNESS
OFF ON
OFF ON
OFF ON
OFF ON
OFF ON
STEREO MONO
OFF ON

4. AM P.C. BOARD (A8-5212)

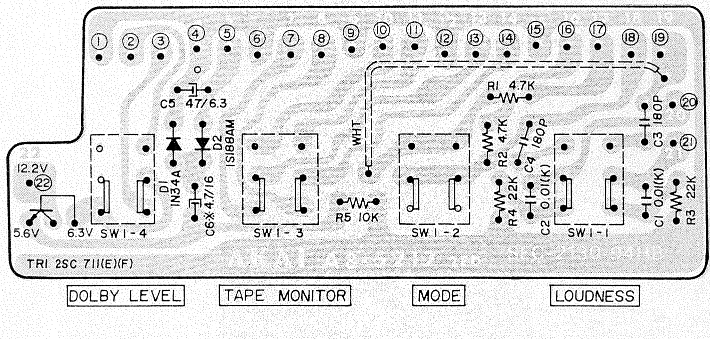

TR1 to 3 2SC454(B)(C)
TR4, 4b, TR5, 5b 2SC1312R(G)(H)
R15 470
D2 1N34A
R13 470
C10 0.047(Z)
C8 0.047(Z)
R11 10K
R33 1K
C41 0.01
R32 6.8K
C21 0.01
HI-144S (BLK)
T3
TR3
T2
HI-134S (WHT)
R10 39K
R8 1.5K
C42 0.0047
C15 0.47/50
R14 10K
C11 0.015(Z)
C13 100/6.3
D3 1N34A
D1 1N34A
GRN
C9 0.047(Z)
R12 470
C7 0.047(Z)
FL BF8464-A
R7 1K
TR2
C5 33/16
C6 0.047(Z)
VLT
C41 75P
C39 CTY-15D
C29 15P
C40 CTY-15D
T1 HI-137S (YLW)
R6 56K
R4 1.2K
C4 0.047(Z)
C3 47/16
C37 0.015(K)
C38 160P
C27 0.01(K)
C28 330P
C2 0.047(Z)
T5 34H-215 (PNK)
ET-OSC (RED)
T4
R3 2.2K
R5 10
12.2V
TR1
R9 270
C34 20P
C35 CTY-15D
C36 CTY-15D
34H-162 (RED)
T6
R28 8.2K
C1 0.047(Z)
R17 47K
WHT
R19 680
C22 0.01
C20 2.2/25
R24 330K
C25 0.0027
R25 30K
R23 220
C24 10/16
R26 47K
C19 470P
C23 1/25L.L.
R21 390K
TR4
TR5
R17 68K
C17 47/16
R16 1K
R20 300K
R18 100K
C21 47P
R22 5.6K
C16 4.7/25L.L.
C26 100/50
33.0V
33.5V
R27 390
C16b 4.7/25L.L.
R20b 300K
R18b 100K
C21b 47P
R22b 5.6K
C17b 47/16
TR4b
TR5b
R16b 1K
C19b 470P
C18b 47P
R21b 390K
R17b 68K
C23b 1/50L.L.
R19b 680
C22b 0.01
C20b 2.2/25
R24b 330K
C25b 0.0027
R25b 30K
R23b 220
C24b 10/16
R26b 47K
BLU
RED
YLW
SW1-4
SW1-3
SW1-2
SW1-1
LW
MW
FM
PHONO
SC-19H AKAI A8-5212
SW1
SW2
SW3
SW4
OFF ON

5. DOLBY P.C. BOARD (A8-5218)



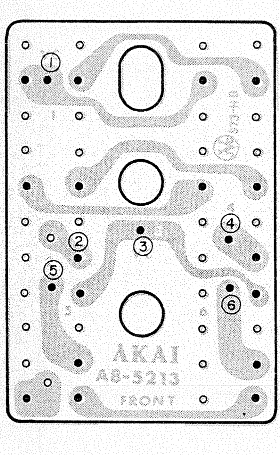
R2 680K
C3 0.1/25(M)
C4 0.33/25(M)
R11 3K
C11 10/16
C1 0.0047
R1 120
R3 150K
R10 8.2K
R6 100K
D2 IN34A
C2 10/16
R4 270K
YLW
GRY/BLK
GRY
WHT
IC1 NE545B
9 10 11 12 13 14 15 16
8 7 6 5 4 3 2 1
7.0V 7.3V 0.6V 0.6V 5V 0.5V 12.2V
6.5V 6.3V 6.5V 6.0V 6.6V 6.5V 6.2V
YLW/WHT
C10 0.0047
C14 1/25
C8 10/16
C9 10/16
C13 0.027
C15 270P
R8 47K
C12 0.0056
R13 15K
R9 3.3K
R7 10
R12 180
C6 0.0027
R14 56K
C7 47/10
GRY/WHT
VR2 20KB
12.2V
R17 390K
C21 10/16
R20 10K
C20 470P
R18 3.3K
TR1 2SC1647 (E)(S)(U)
0.9V
9.2V
1.5V
R16 1.5M
R19 1K
C19 150P
C22 10/16
C18 0.018
C17 0.018
R15 8.2K
VR1 10KB
C16 0.018
R2b 680K
C3b 0.1/25(M)
C4b 0.33/25(M)
R11b 3K
C11b 10/16
C1b 0.047
R1b 120
R3b 150K
R10b 8.2K
R6b 100K
C2b 10/16
D2 IN34A
R4b 270K
7.3V 7.8V 0.6V 0.6V 5V 0.5V 12.2V
IC1b NE545B
7.2V 6.4V 6.7V 5.9V 6.7V 6.7V 6.4V
C8b 10/16
C9b 10/16
C10b 0.0047
C14b 1/25
R8b 47K
C13b 0.027
C15b 270P
R9b 3.3K
C12b 0.0056
R13b 15K
R7b 10
C6b 0.0027
R12b 180
R14b 56K
C7b 47/10
YLW/WHT
GRN/WHT
WHT/BLU
BLU
GRN
GRN/BLK
WHT/BLU
YLW
BLU
GRY/WHT
GRY/BLK
GRN/BLK
GRN/WHT
GRN
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱
SW1-3
SW1-2
SW1-1
DOLBY TONE
REC./P.B.
DOLBY N.R.

6. PUSH SW. P.C. BOARD (A8-5217)



① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒
C5 47/6.3
D1 IN34A
D2 IS188AM
C6 4.7/16
WHT
R1 4.7K
R2 4.7K
C4 180P
C3 180P
R5 10K
R4 22K
C2 0.01(K)
C1 0.01(K)
R3 22K
12.2V
5.6V
6.3V
SW1-4
SW1-3
SW1-2
SW1-1
TR1 2SC 711(E)(F)
AKAI A8-5217
DOLBY LEVEL
TAPE MONITOR
MODE
LOUDNESS

7. JUMPER P.C. BOARD (A8-5213)



① ② ③ ④ ⑤ ⑥
AKAI
A8-5213
FRONT

SECTION 2

PARTS LIST

TABLE OF CONTENTS

FIG. 1 MAIN AMP. P.C. BOARD (A8-5031) BLOCK 20
FIG. 2 FM P.C. BOARD (A8-5032) BLOCK 21
FIG. 3 AM P.C. BOARD (A8-5033) (A8-5212) BLOCK 22
FIG. 4 DOLBY P.C. BOARD (A8-5218) BLOCK 23
FIG. 5 PUSH SW. P.C. BOARD (A8-5217) BLOCK 24
FIG. 6 ASSEMBLY BLOCK 25
FIG. 7 FINAL ASSEMBLY BLOCK 27
INDEX 28

HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read list.

The reference number corresponds with illustration or photo number of that particular parts list.

This number corresponds with the Figure Number.

This number corresponds with the individual parts index number in that figure.

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

12-115x

Schematic Diagram Number of individual manufactured part.
(not required for parts order)

Quantity of particular part required.

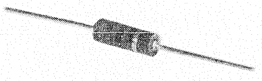
Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		FLYWHEEL BLOCK #13		
12-115x	800425	Flywheel Block Assy. Comp.	RDG#13	1
12-116	244506	Flywheel Only	RD-233	1
12-117x	244754	Felt, Flywheel	RD-275	1
12-118	251324	Main Metal Case	RD-236	1
12-119	253080	Main Metal	RD-237	1

4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram or Service Manual.
5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Please utilize separate "Common List for Service Parts" for Resistor parts orders.
8. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.
   It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
9. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

ELECTRICAL PARTS TABLE

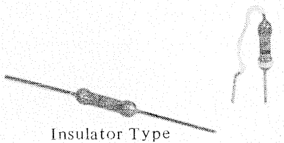
Because the indication of resistors and capacitors in the P. C. Board photos are being eliminated, please confirm parts name and shape by comparing them with the parts shown in this table.

1



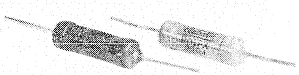
Solid Resistor

2



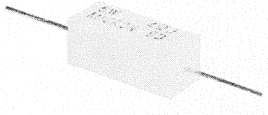
Carbon Resistor

3



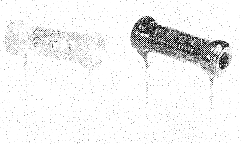
Metal Oxide Film Resistor

4



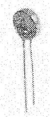
Cement Resistor

5



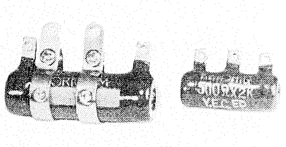
Wire-Wound Resistor

6



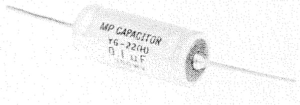
Thermister

7



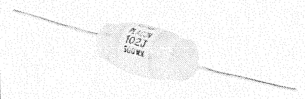
Enamel Resistor

1



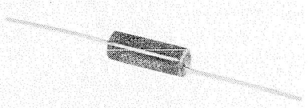
MP Capacitor (Tubular Type)

2



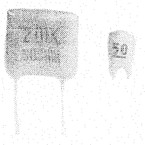
Plastic Capacitor

3



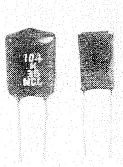
Mylar Capacitor

4



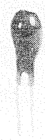
VFM (Hi-Q) Capacitor

5



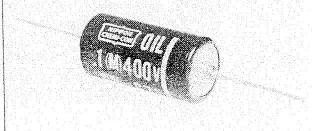
Mylar Capacitor

6



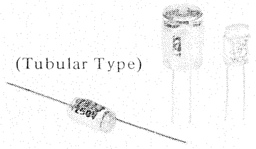
Tantalum Capacitor

7



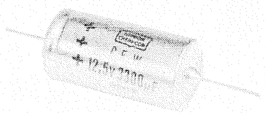
Oil Capacitor (Tubular Type)

8



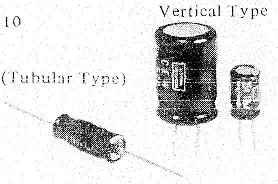
Styrol Capacitor

9



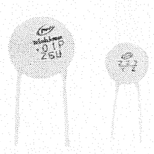
Electrolytic Capacitor (Tubular Type)

10



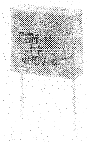
Electrolytic Capacitor

11



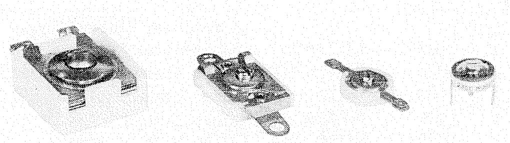
Ceramic Capacitor

12



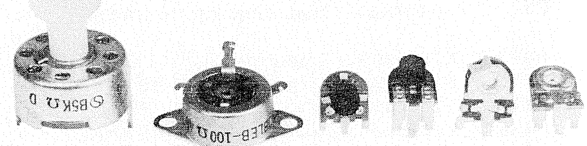
Metalized Mylar (Paper) Capacitor

13



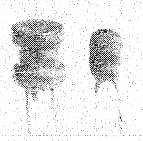
Trimmer Condenser

VR



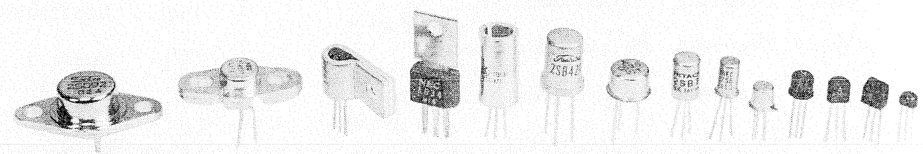
Semi-Fixed Volume

L



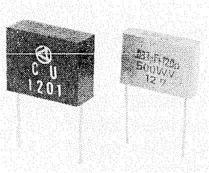
Ferri Inductor

TR



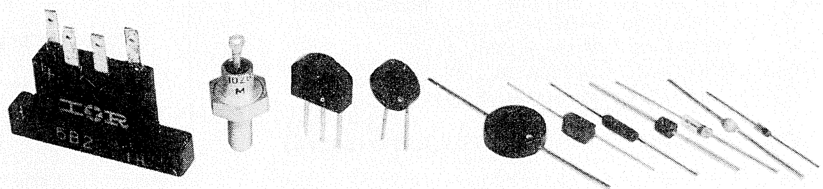
Transistor

CR



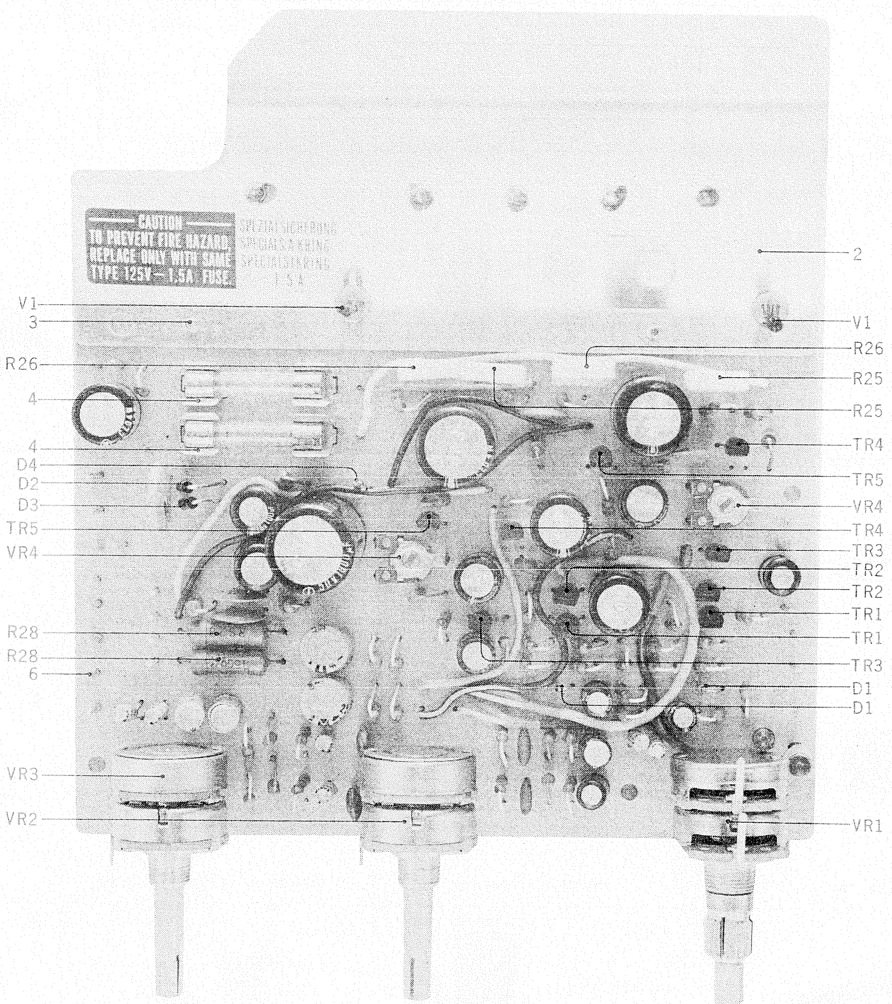
Spark Quencher

D



Diode (Silicon, Zener, Germanium)

FIG. 1 PHOTO OF MAIN AMP. P.C. BOARD (A8-5031) BLOCK


CAUTION
TO PREVENT FIRE HAZARD
REPLACE ONLY WITH SAME
TYPE 125V—1.5A FUSE
SPEZIALSICHERUNG
SPECIALSAKRING
SPECIALSIKRING
1.5A
2
V1
3
V1
R26
R26
R25
4
R25
4
TR4
D4
D2
TR5
D3
VR4
TR5
TR4
VR4
TR3
TR2
TR2
TR1
R28
TR1
R28
TR3
6
D1
D1
VR3
VR2
VR1

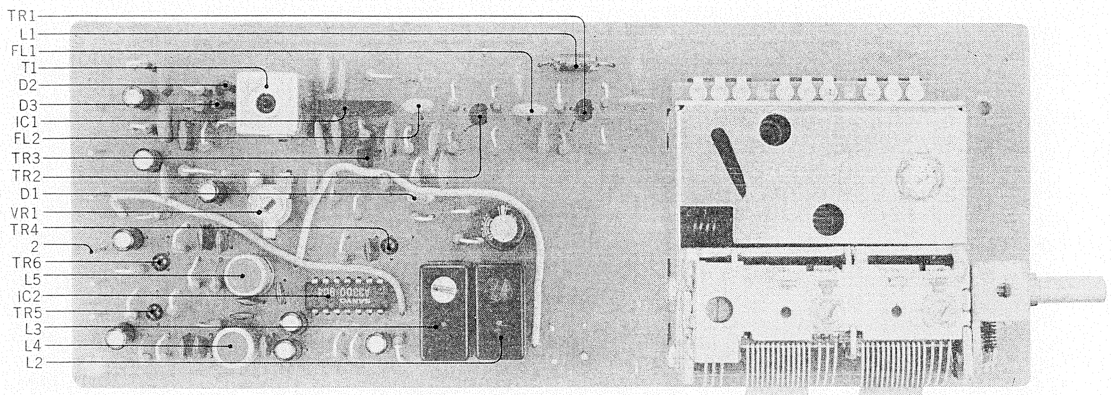
MAIN AMP. P.C. BOARD (A8-5031) BLOCK

Symbol No.	Parts No.	Description	Q'ty
1-1x	BA604967	Main Amp. P.C. Board Comp. (A8-5031)	1
1-TR1,2	ET604124	Transistor 2SC1313(G)(H)	4
1-TR3,4	ET554736	Transistor 2SA720(R)(Q)	4
1-TR5	ET554725	Transistor 2SC1317(R)(Q)	2
1-TR6,7,8	ET556086	Transistor 2SD313(D)(E)	5
1-D1	ED514721	Silicon Diode WG-599	2
1-D2,3	ED224526	Silicon Diode 10D1	2
1-D4	ED539976	Zener Diode WZ-130	1
1-VR1	EV604462	2-axial 2-throw/Vol. V10L5-3BM250kx2	1
1-VR2,3	EV604473	Co-axial 2-throw/Vol. V10L5-15C 10kx2	2
1-VR4	EV604484	Semi-fixed/Vol. V10K8-4-2 300Ω B	2
1-V1	ED490511	Varistor VD1222	2
1-2	EZ607825	Heat-sink	1
1-3	ZS379350	ISO Screw, pan head 3x6	7
1-4	EJ514822	Fuse Holder, P.C. Board S-N5051	4
1-5x	ZW632226	Insulater Washer Bush M	5
1-6	EJ539662	Wrapping Post 1x17	18
1-R18	ER617725	Solid/R. RC1/2W 15Ω(K)	2
1-R25,26	ER552712	Metal Plate/R. MPC70F 2W 0.47Ω(K)	4
1-R28	ER439132	Metal Oxide Film/R. 2W 150Ω(K)	2

Symbol No.	Parts No.	Description	Q'ty
		Capacitor, Vertical Type	
1-C1	EC516767	Styrol 470PF(K) 50WV	2
1-C2	EC604440	Solid Aluminum 0.33μF(M) 25WV	2
1-C3	EC220994	Elect. 10μF 25WV	2
1-C4	EC220364	Elect. 100μF 6.3WV	2
1-C5	EC524957	VFM 39PF(K) 50WV	2
1-C6	EC220994	Elect. 10μF 25WV	2
1-C7	EC290531	VFM 100PF(K) 50WV	2
1-C8	EC335992	Mylar 0.027μF(K) 50WV	2
1-C9	EC522527	Tantalum 0.33μF(M) 35WV (DTS Type)	2
1-C10	EC321221	Elect. 100μF 50WV	2
1-C11	EC220151	Elect. 100μF 25WV	2
1-C12	EC336126	Elect. 47μF 25WV	2
1-C13	EC604440	Solid Aluminum 0.33μF(M) 25WV	2
1-C14	EC604528	Solid Aluminum 2.2μF(M) 10WV	2
1-C15	EC450270	Elect. 1000μF 25WV	2
1-C16,17	EC492142	Ceramic DD512 YM 0.047μF(Z) 50WV	4
1-C18	EC551160	Ceramic NB821 YZ 0.01μF(Z) 1.4 kWV	1
1-C19	EC220127	Elect. 100μF 16WV	1
1-C20	EC565345	Elect. 1000μF 50WV	1
1-C21	EC220127	Elect. 100μF 16WV	1
1-C22	EC321221	Elect. 100μF 50WV	1

Carbon Resistor Omitted

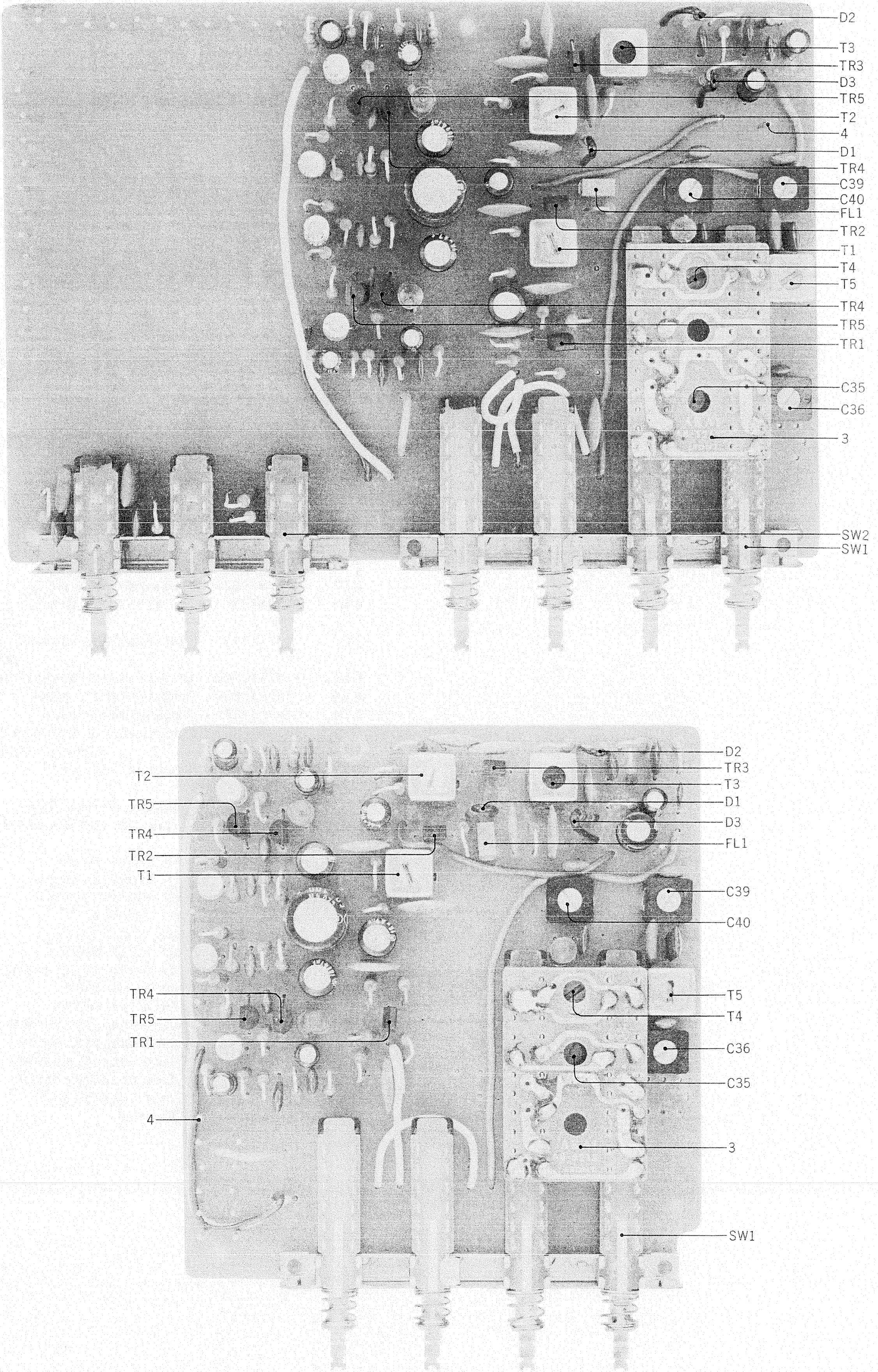
FIG. 2 PHOTO OF FM P.C. BOARD (A8-5032) BLOCK



FM P.C. BOARD (A8-5032) BLOCK

Symbol No.	Parts No.	Description	Q'ty
2-1x	BA604956	FM P.C. Board Comp. (A8-5032)	1
2-IC1	ET485291	I.C. TA7061AP	1
2-IC2	EI443744	I.C. LA-3300	1
2-TR1to3	ET554016	Transistor 2SC839(F)(H)	3
2-TR4to6	ET342707	Transistor 2SC536(E)(F)	3
2-D1	ED428264	Germanium Diode 1N60	1
2-D2,3	ED604541	Silicon Diode 1S2076	2
2-FL1,2	ER539818	Filter SFE-10.7MA5	2
2-L1	EO539820	Peaking Coil 2.2 H(K)	1
2-L2	EO443766	Coil (19KC) 02-1070-03 1070 (Black)	1
2-L3	EO443777	Coil (38KC) 02-1064-03 1064 (White)	1
2-L4,5	EO443788	Choke Coil 7-1133-02 L=40MH	2
2-L6	EO539820	Peaking Coil 2.2 H(K)	1
2-T1	EO537232	Discri Coil 05M-1376	1
2-VR1	EV484863	Semi-fixed/Vol. V10K8-4-2 (Metalized Film)	1
2-2	EJ539662	Wrapping Post 1x17	13
		Capacitor, Vertical Type	
2-C1to13	EC404256	Cermic DD610YM 0.015μF(Z) 50 50WV	13
2-C14	EC483300	VFM 5PF(J) 50WV	1
2-C17	EC290531	VFM 100PF(K) 50WV	1
2-C18,19	EC539842	VFM 200PF(K) 50WV	2
2-C20,21	EC320051	Elect. 10μF 16WV	2
2-C22	EC321208	Elect. 220μF 16WV	1
2-C23	EC350706	Elect. 4.7μF 16WV	5
2-C25	EC250661	Mylar 0.0015μF(K) 50WV	1
2-C27	EC320051	Elect. 10μF 16WV	1
2-C28,29	EC350706	Elect. 4.7μF 16WV	2
2-C30,31	EC362158	Mylar 0.0047μF(K) 50WV	2
2-C32,33	EC250604	Mylar 0.001μF(K) 50WV	2
2-C34,35	EC342821	Mylar 0.0068μF(K) 50WV	2
2-C36,37	EC250964	Mylar 0.012μF(K) 50WV	2
2-C38,39	EC350706	Elect. 4.7μF(K) 16WV	2
	Carbon Resistor Omitted		

FIG. 3 PHOTO OF AM P.C. BOARD (A8-5033) (A8-5212) BLOCK

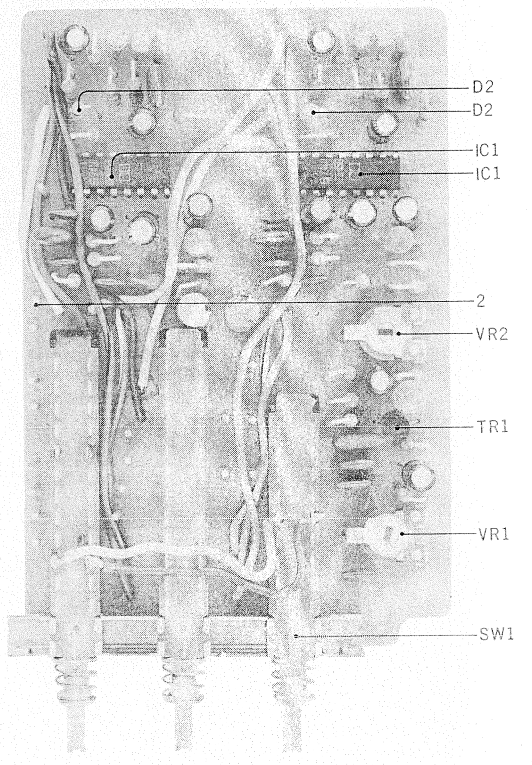

D2
T3
TR3
D3
TR5
T2
4
D1
TR4
C39
C40
FL1
TR2
T1
T4
T5
TR4
TR5
TR1
C35
C36
3
SW2
SW1
T2
TR5
TR4
TR2
T1
TR4
TR5
TR1
4
D2
TR3
T3
D1
D3
FL1
C39
C40
T5
T4
C36
C35
3
SW1

AM P.C. BOARD (A8-5033)(A8-5212) BLOCK

Symbol No.	Parts No.	Description	Q'ty
3-1x	BA618761	AM P.C. Board Comp. (A8-5033)	1
3-2x	BA618772	AM P.C. Board Comp. (A8-5212) (DBL)	1
3-TR1,2,3	ET591366	Transistor 2SC454(B)(C)	3
3-TR4,5	ET517263	Transistor 2SC1312(G)(H)	4
3-D1,2,3	ED219464	Germanium Diode 1N34A	3
3-FL1	ER380417	Filter BFB 464-A	1
3-T1	BT379991	Trans. HI-137S (Yellow)	1
3-T2	BT380384	Trans. HI-134S (White)	1
3-T3	BT443610	Trans. HI-144S (Black)	1
3-T4	BT427915	AM OSC. Trans. ET-OSC	1
3-T5	BT633025	LW OSC Transformer 34H-215	1
3-T6	BT638425	Trans. 34H-162	1
3-SW1	ES623981	Push SW. 4FT-0001FF9920	1
3-SW2	ES623970	Push SW. 3FT-0009FF2020	1
3-3	EA607500	Jumper P.C. Board A	1
3-4	EJ539662	Wrapping Post 1x17	25
		Capacitor, Vertical Type	
3-C1,2	EC492142	Ceramic DD512 YM 0.047μF(Z) 50WV	2
3-C3	EC320040	Elect. 47μF 16WV	1
3-C4	EC492142	Ceramic DD512 YM 0.047μF(Z) 50WV	1
3-C5	EC450066	Elect. 33μF 16WV	1
3-C6to10	EC492142	Ceramic DD512 YM 0.047μF(Z) 50WV	5
3-C11	EC404256	Ceramic DD610YM 0.015μF(Z) 50WV	1
3-C12	EC250885	Mylar 0.01μF(K) 50WV	1
3-C13	EC220364	Elect. 100μF 6.3WV	1
3-C14	EC250885	Mylar 0.01μF(K) 50WV	1
3-C15	EC450281	Elect. 0.47μF 50WV	1
3-C16	EC514708	Elect. 4.7μF 25WV NL	2
3-C17	EC320040	Elect. 47μF 16WV	2
3-C18	EC487394	VFM 47PF(K) 50WV	2
3-C19	EC516767	Styrol 470PF(K) 50WV	2
3-C20	EC220432	Elect. 2.2μF 25WV	2
3-C21	EC487394	VFM 47PF(K) 50WV	2
3-C22	EC250841	Mylar 0.01μF(K) 50WV	2
3-C23	EC479621	Elect. 1μF 50WV NL	2
3-C24	EC320051	Elect. 10μF 16WV	2
3-C25	EC379765	Mylar 0.0027μF(J) 50WV	2
3-C26	EC321221	Elect. 100μF 50WV	1
3-C27	EC250885	Mylar 0.01μF(K) 50WV	1
3-C28	EC516745	Styrol 330PF(K) 50WV	1
3-C29	EC443654	VFM 15PF(K) 50WV	1
3-C30,31	EC451451	Mylar 0.01μF(K) 50WV	2
3-C32,33	EC250885	Mylar 0.01μF(K)50WV	2
3-C34	EC444374	VFM 20PF(K) 50WV	1
3-C35,36	EC616342	Trimmer CTY-15D33 12PF	2
3-C37	EC250997	Mylar 0.015μF(K) 50WV	1
3-C38	EC618513	VFM 160PF(K) 50WV	1
3-C39,40	EC616342	Trimmer CTY-15D33 12PF	2
3-C41	EC423145	VFM 75PF(K) 50WV	1

Carbon Resistor Omitted

FIG. 4 PHOTO OF DOLBY P.C. BOARD (A8-5218) BLOCK



DOLBY P.C. BOARD (A8-5218) BLOCK

Symbol No.	Parts No.	Description	Q'ty
4-1x	BA605002	Dolby P.C. Board Comp. (A8-5218)(DBL)	1
4-IC1	EI605013	I.C. NE545B	2
4-TR1	ET601312	Transistor 2SC1647(S)(E)(U)	1
4-D2	ED417442	Germanium Diode 1N34A	2
4-SW1	ES604427	Push SW. 3F-0002FF2020	1
4-VR1	EV604438	Semi-fixed/Vol. V10K8-4-2 10kB	1
4-VR2	EV560136	Semi-fixed/Vol. V10K8-4-2 20kB	1
4-2	EJ539662	Wrapping Post 1x17	18
		Capacitor, Vertical Type	
4-C1	EC308711	Mylar 0.047μF(K) 50WV	2
4-C2	EC320051	Elect. 10μF 16WV	2
4-C3	EC523282	Solid Aluminum 0.1μF(M) 25WV	2
4-C4	EC604440	Solid Aluminum 0.33μF(M) 25WV	2
4-C6	EC390633	Mylar 0.0027μF(K) 50WV	2
4-C7	EC493637	Elect. 47μF 10WV	2
4-C8,9	EC320051	Elect. 10μF 16WV	4
4-C10	EC362158	Mylar 0.0047μF(K) 50WV	2
4-C11	EC320051	Elect. 10μF 16WV	2
4-C12	EC362125	Mylar 0.0056μF(K) 50WV	2
4-C13	EC251122	Mylar 0.027μF(K) 50WV	2
4-C14	EC493323	Elect. 1μF 25WV NL	2
4-C15	EC516723	Styrol 270PF(K) 50WV	2
4-C16,17	EC302297	Mylar 0.018μF(K) 50WV	2
4-C18	EC302297	Mylar 0.018μF(K) 50WV	1
4-C19	EC290507	VFM 150PF(K) 50WV	1
4-C20	EC516767	Styrol 470PF(K) 50WV	1
4-C21,22	EC320051	Elect. 10μF 16WV	2

Carbon Resistor Omitted

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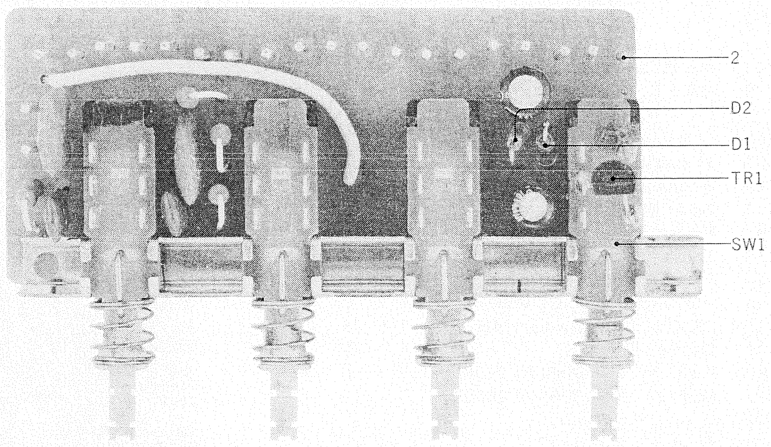
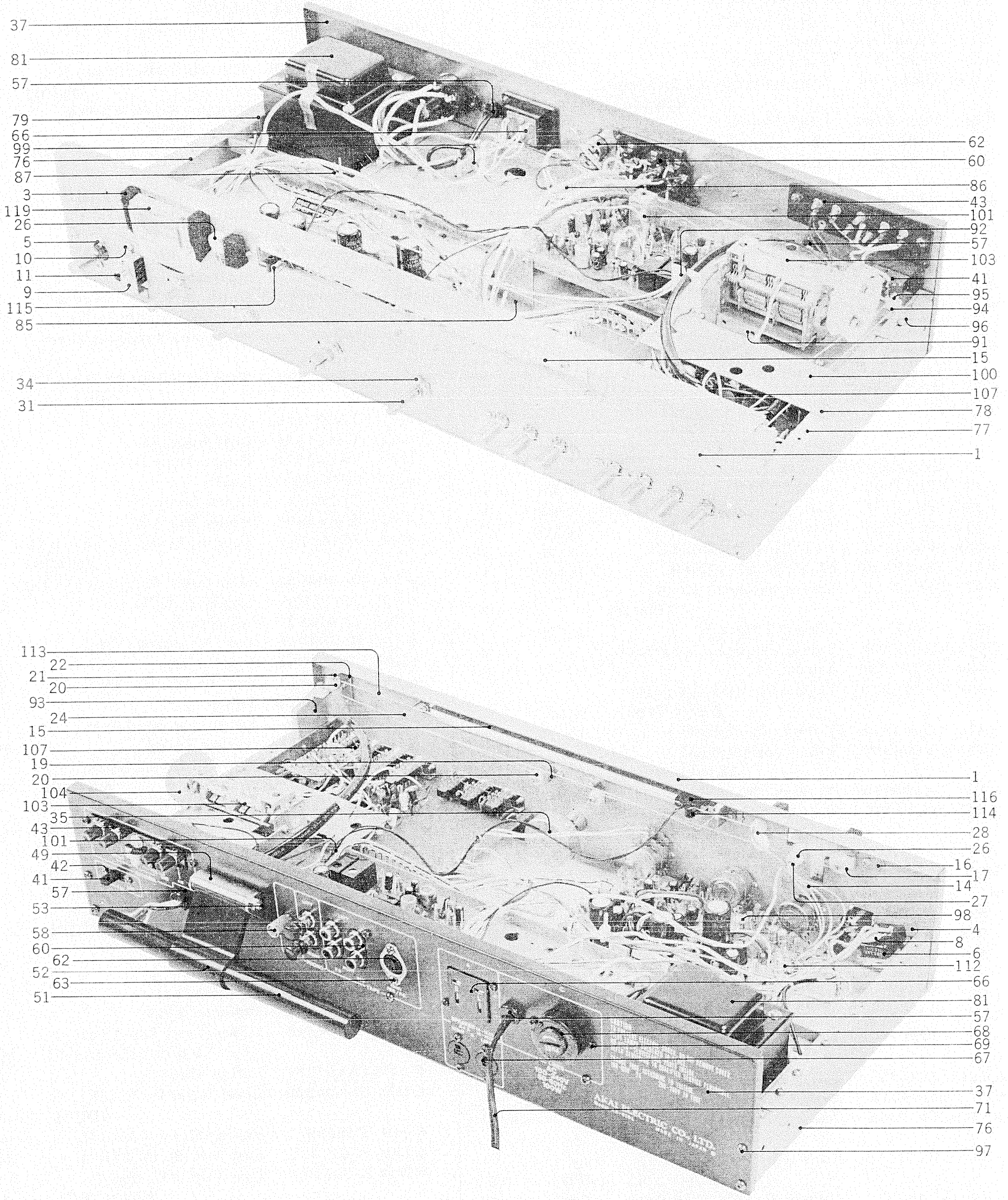
FIG. 5 PHOTO OF PUSH SW. P.C. BOARD (A8-5217) BLOCK



PUSH SW. P.C. BOARD (A8-5217) BLOCK

Symbol No.	Parts No.	Description	Q'ty
5-1x	BA604978	Push SW. P.C. Board Comp. (A8-5217)(DBL)	1
5-TR1	ET453486	Transistor 2SC711(E)(F)	1
5-D1	ED417442	Germanium Diode 1N34A	1
5-D2	ED562386	Germanium Diode 1S188AM	1
5-SW1	ES623992	Push SW. 4FT-0002FF2020	1
5-2	EJ539662	Wrapping Post 1x17	22
		Capacitor, Vertical Type	
5-C1, 2	EC250885	Mylar 0.01μF(K) 50WV	2
5-C3, 4	EC451451	VFM 180PF(K) 50WV	2
5-C5	EC329771	Elect. 47μF 6.3WV	1
5-C6	EC621742	Elect. 4.7μF 16WV NL	1
	Carbon Resistor Omitted		

FIG. 6 PHOTO OF ASSEMBLY BLOCK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101
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103
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116
114
28
26
16
17
14
27
98
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8
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112
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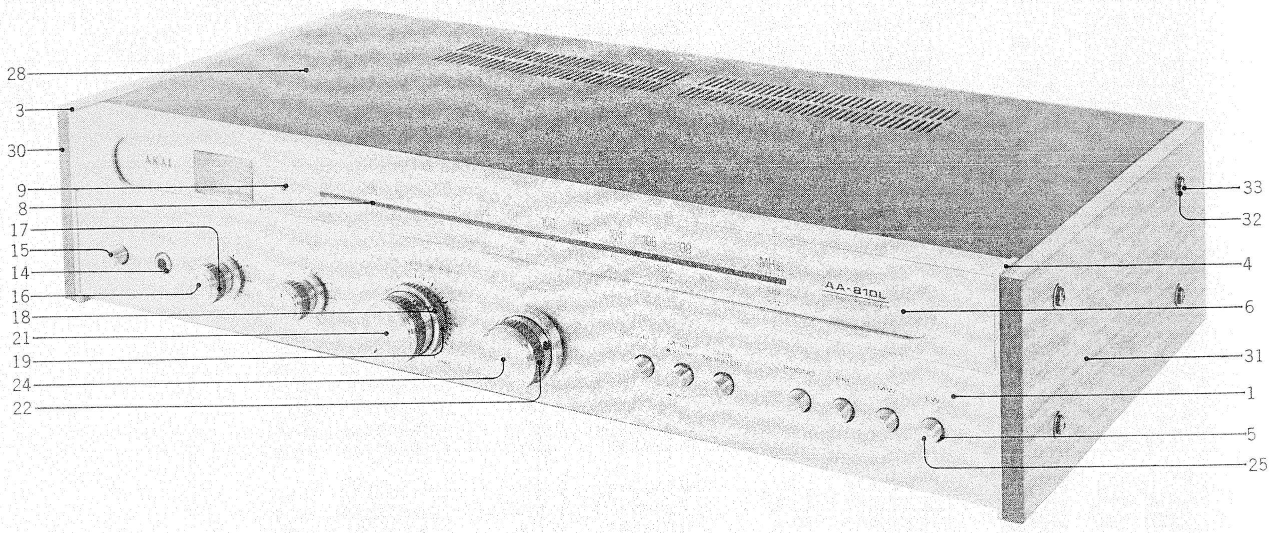
97

ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
6-1	TA607858	Front Chassis	A8-5001	1
6-2x	TA607612	Front Chassis 1 (DBL)	A8-5201	1
6-3	TA607983	Meter Support	A8-5002	1
6-4	TA609761	SW. Angle	A5-5009	1
6-5	ZS422076	Screw, pan head 3x5		4
6-6	ES469541	Push SW. TV-3 JB52	25-5-60	1
6-7x	ES602594	Push SW. 250V 4A (EC)	25-5-147	1
6-8	EC551160	Ceramic/C. NB821 YZ 0.01μF(Z) 1.4 kWV	24-5-55	1
6-9	TA607948	Jack Table	A8-5003	1
6-10	ZS325495	Tapping Screw #2 3x6		10
6-11	EJ454770	Mic. Jack 3PMJ1T	31-2-41	1
6-12x	ZW482927	Washer (SPC) D9.2x14x0.5t		1
6-13x	ZW270191	E Jack Nut		1
6-14	TA607307	Lamp Base	A8-5042	1
6-15	TA607893	Indication Guide	A8-5008	1
6-16	TA607950	Roller Angle A	A8-5004	1
6-17	MR530651	Roller A	91-5008	1
6-18x	ZW621360	Washer (Nylon) D3.4x7 D3.4x7.8x1.5t		1
6-19	TA607961	Roller Angle B	A8-5005	1
6-20	MR530662	Roller B	91-5009	3

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
6-21	ZS530673	Roller Screw A	91-5010	3
6-22	TA607972	Rolelr Angle C	A8-5006	1
6-23x	TA607318	Shield	A8-5043	1
6-24	TA626477	Read Holder	A8-5062	1
6-25x	ZS462194	Tapping Screw #2 3x8 (pan), w/washer		1
6-26	TA510502	Lamp Holder	T5-5035	2
6-27	EL604372	Pilot Lamp 1 8V 50MA	28-2-28	1
6-28	EL512212	Pilot Lamp(L/T) 12V 35MA (120M/Mx2)	28-2-23	1
6-29x	EV604383	Vol. V16L4N30KC 100kB (DBL)	36-6-9	2
	FLYWHEEL BLOCK			
6-30x	BF604844	Flywheel Block Comp.		1
6-31	TA607904	Tuning Shaft	A8-5010	1
6-32x	ZW270123	'E' Ring 4M	6-1-9	1
6-33x	ZW260122	Washer (Nylon) D6.1x10x1t		2
6-34	TA530741	Tuning Metal	91-5017	1
6-35	MI632744	Flywheel	A8-5063	1
6-36x	ZS444240	Set Serew, hexagon socket 4x8 (Cup/p.)		1
	REAR PANEL BLOCK			
6-37	SP607803	Rear Panel B	A8-5021	1
6-38x	SP607601	Rear Panel 2 (DBL-U, 3 core)	A8-5204	1
6-39x	SP610694	Rear Panel G (EC)	A8-5021	1
6-40x	SP610650	Rear Panel 7 (DBL-EC)	A8-5204	1
6-41	ES422436	Slide SW. SL-222B4C	25-3-40	1
6-42	ZS608185	Screw, pan head 2.6x4 (Black)		2
6-43	EJ603718	Terminal Plate 5P	32-1-55	1
6-44x	ZS421740	Screw, pan head 3x8 (Black)		8
6-45x	ZW273756	Nut M3		6
6-46x	ER211320	Carbon/R. RD1/4 1.5k(J) (Stop. Type)	35-10-1	2
6-47x	TA607522	Volume Table (DBL)	A8-5202	1
6-48x	EV604394	Vol. V16L4N15KC 3B100k (DBL)	36-6-8	2
6-49	TA530910	Antenna Channel	91-5029	1
6-50x	ZS447761	Tapping Screw #2 3x6 (BR) (Black)		2
6-51	TA618491	Bar Antenna	55-1-24	1
6-52	TA625847	Antenna Holder	2-7-46	1
6-53	ZW552600	ISO Screw, pan head 4x50		1
6-54x	ZW273914	Spring Washer M4		2
6-55x	ZW420682	Washer (Nylon) D4.2x9x0.5t		2
6-56x	ZW604416	Nut M4		1
6-57	EZ382263	Strain Relief SR-4K-4	2-7-12	2
6-58	EZ486257	Metal Terminal T-10	32-1-27	1
6-59x	ZW273802	Toothed Lock Washer M3		1
6-60	EJ551340	Wrapping Pin Jack B T5347(B) 6P	31-1-102	1
6-61x	ZS570385	ISO Screw, pan head 3x8		4
6-62	EJ299316	Jack, 5P Din	31-1-24	1
6-63	ZS447761	Tapping Screw #2 3x6 (BR) (Black)		2
6-64x	ER357535	Carbon/R. RD1/4 39k(J) (Stop. Type)	35-10-1	2
6-65x	ER452777	Carbon/R. RD1/4 160k(J)	35-9-5	2
6-66	EJ551316	Speaker Consent PO409	31-1-98	1
6-67	EJ602537	Connector Socket 2P	31-1-116	2
6-68	EJ233370	Socket S-18010 (Volt. Selector)	40-2-3	1
6-69	ZS608488	Screw, pan head 3x5		2
6-70x	EF563703	Fuse 2A 250V	39-1-50	1
6-71	EW374894	U/L AC Cord 3M	26-3-19	1
6-72x	EW516600	Power Cord VM-0065(EC)	26-3-28	1
6-73x	EW315448	Australia Cord (3 core)	26-3-11	1
6-74x	EZ246936	Strain Relief SR-6W-1 (3 core)	2-7-8	1
6-75x	SM582827	Dolby Sticket (DBL)	LE-6307	1
	ASSEMBLY BLOCK			
6-76	TA605924	Side Plate Metal Parts A (Left)	A5-5002	1
6-77	TA606058	Side Plate Metal Parts B (Right)	A5-5002	1
6-78	ZS325495	Tapping Screw #2 3x6		19
6-79	TA607836	Trans. Table	A8-5015	1
6-80x	ZS447840	Tapping Screw #2 3x8 (BR)		5
6-81	BT604337	Power Trans. AA-810T-1	38-4-309	1
6-82x	BT604574	Power Trans. AA-810T-3 (EC)	38-4-307	1
6-83x	ZW273745	Spring Washer M3		4
6-84x	ZW273756	Nut M3		4
6-85	TA607937	Reinforcement Angle	A8-5017	1
6-86	EJ551035	Wrapping Terminal T-5251 4P	32-1-36	1
6-87	EJ539447	Earth Terminal T4460 2P	32-1-32	1
6-88x	EJ561227	Terminal No.500/2 (EC)	52-1-19	1
6-89x	MZ546625	Connector Insulator Paper (EC)	ND-1081	1
6-90x	ZS462802	Tapping Screw #2 3x15 (BR) (EC)		1
6-91	TA607860	AM Support	A8-5018	1
6-92	TA611436	Lead Support	A8-5050	1
6-93	TA607871	Roller Angle D	A8-5019	1
6-94	MR530662	Roller B	91-5009	2
6-95	ZS530673	Roller Screw A	91-5010	2
6-96	TA607994	Roller Angle E	A8-5020	1
6-97	ZS447761	Tapping Screw #2 3x6 (BR) (Black)		7
6-98	BA604967	Main Amp. P.C. Board Comp.	A8-5031	1
6-99	EJ254970	Lug Plate KP1L1	33-3-3	1
6-100	TA614935	AM Shiedl	A8-5056	1
6-101	BA604956	FM P.C. Board Comp.	A8-5032	1
6-102x	TA611965	Lead Holder	A8-5039	1
6-103	TA616847	Front End FB112U23	57-2-32	1
6-104	MR530706	Pulley	91-5012	1
6-105x	ZS421806	Screw, pan head 3x8		1
6-106x	ZG549011	Tuning Spring	91-5094	1
6-107	BA618761	AM P.C. Board Block AA-810L	A8-5033	1
6-108x	BA618772	AM P.C. Board Block AA-810DBL	A8-5033	1
6-109	ZS422076	Screw, pan head 3x5		9
6-110x	BA604978	Push SW. P.C. Board Comp. AA-810DBL	A8-5217	1
6-111x	BA605002	Dolby P.C. Board Comp. AA-810DBL		1
6-112	MT553948	Wire Band B	2-35-3	5
6-113	TA207347	Thread		1
6-114	TA614946	Indicator	2-43-2	1
6-115	TA607926	Indicater Lens	A8-5012	1
6-116	EL604348	Lamp (Lead Type) 12V 0.04A (350M/Mx2)	28-2-41	1
6-117x	TA607285	Teflon Sheet	A8-5037	1
6-118x	EM604350	Level Meter D33C13R (DBL)	46-1-92	1
6-119	EM604361	Tuning Meter A33x15B	46-1-94	1
6-120x	EF611425	Fuse P.C. Board 2 (EC)	A8-5038	1
6-121x	EJ592503	Fuse Clip, P.C. Board H0426 (EC)	40-1-37	6
6-122x	EF602550	Fuse 1.25AT 250V (EC)	39-1-53	2
6-123x	EF563692	Fuse 1.5A 250V	39-1-50	2
6-124x	EF563681	Fuse 1A 250V	39-1-50	1
6-125x	EZ610773	Fuse Angle A8 (EC)	A8-5054	2
6-126x	TA605878	Lead Protecter (EC)	A5-5007	1
6-127x	EA607320	Repeater P.C. Board (EC)	A8-5047	1
6-128x	EA607331	Repeater P.C. Board Table (EC)	A8-5048	1
6-129x	SM585448	Serial No. Name Plate B	AA-805	1

FIG. 7 PHOTO OF FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

FRONT PANEL BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
7-1	SP607746	Front Panel B	A8-5024	1
7-2x	SP607634	Front Panel 2 (DBL)	A8-5207	1
7-3	TA609794	Side Fitting (Left)	A5-5017	1
7-4	TA609816	Side Fitting (Right)	A5-5017	1
7-5	TA545905	Push Button Bush	98-5061	8
7-6	TA607410	Scale Plate B	A8-5027	1
7-7x	TA607768	Scale Plate 2 (DBL)	A8-5210	1
7-8	TA607882	Indication Scope	A8-5007	1
7-9	SZ457975	Lamp Lens B	55-5012	1

ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
7-10x	SP607432	Bottom Plate	A8-5028	1
7-11x	ZS447840	Tapping Screw #2 3x8 (BR)		10
7-12x	SA609952	Tran Leg D	2-6-11	4
7-13x	ZS565942	Tapping Screw #2 4x8 pan head		4
7-14	ZW526577	Collar B, Jack	MC-5006	1
7-15	SK627524	Push Button Knob G (Orange)	91-5051	1
7-16	SJ627535	Single Knob B-2	A5-5053	2
7-17	MB551103	Double Knob Lower Rubber Ring	3-10-5	2
7-18	SK631192	Memory Knob Ring	A5-5048	1
7-19	MB605880	Knob Rubber Ring D	A5-5055	1
7-20x	ZW493312	Washer (Nylon) D6.2x10x1t		1
7-21	SK609838	Volume Knob	A5-5049	1
7-22	MB509851	Knob Rubber Ring C	A5-5054	2
7-23x	ZS444240	Set Screw, hexagon Socket 4x8 (Cup/P.)		2
7-24	SB607274	Tuner Knob	A8-5029	1
7-25	SK531224	Push Button Knob	91-5051	17
7-26x	SB628108	Push Button F (Green) (DBL)	91-5051	1
7-27x	SK628198	Dolby Knob B (DBL)	A8-5211	2
7-28	SP607443	Cover	A8-5030	1
7-29x	ZS447761	Tapping Screw #2 3x6(BR) (Black)		2
7-30	SP605946	Side Plate A (Left)	A5-5020	1
7-31	SP606047	Side Plate B (Right)	A5-5020	1
7-32	ZW602381	Washer (SPC) D4.2x11x1t		8
7-33	ZW552824	ISO Screw, binding head 4z18		8
7-34x	TA611447	Antenna Window Cover	A8-5055	2
7-35x	EF563681	Fuse 1A 250V	39-1-50	1
7-36x	EF563703	Fuse 2A 250V	39-1-50	1
7-37x	EJ552778	Short Pin Plug ASB-2	42-1-65	2
7-38x	EJ550912	Speaker Plug	42-1-64	2
7-39x	EJ602346	Speaker Plug	42-1-75	2
7-40x	TA560092	FM Antenna AFM-1B (5003-03)	55-1-20	1

INDEX

Parts No.	Ref. No. & Symbol No.
BA604956	2-1x
BA604956	6-101
BA604967	1-1x
BA604967	6-98
BA604978	5-1x
BA604978	6-110x
BA605002	4-1x
BA605002	6-111x
BA618761	3-1x
BA618761	6-107
BA618772	3-2x
BA618772	6-108x
BF604844	6-30x
BT379991	3-T1
BT380384	3-T2
BT427915	3-T4
BT443610	3-T3
BT604337	6-81
BT604574	6-82x
BT633025	3-T5
BT638425	3-T6
EA607320	6-127x
EA607331	6-128x
EA607500	3-3
EC220127	1-C19
EC220127	1-C21
EC220151	1-C11
EC220364	1-C4
EC220364	3-C13
EC220432	3-C20
EC220994	1-C3
EC220994	1-C6
EC250604	2-C32,33
EC250661	2-C25
EC250841	3-C22
EC250885	3-C12
EC250885	3-C14
EC250885	3-C27
EC250885	3-C32,33
EC250885	5-C1,2
EC250964	2-C36,37
EC250997	3-C37
EC251122	4-C13
EC290507	4-C19
EC290531	1-C7
EC290531	2-C17
EC302297	4-C16,17
EC302297	4-C18
EC308711	4-C1
EC320040	3-C3
EC320040	3-C17
EC320051	2-C20,21
EC320051	2-C27
EC320051	3-C24
EC320051	4-C2
EC320051	4-C8,9
EC320051	4-C11
EC320051	4-C21,22
EC321208	2-C22
EC321221	1-C10
EC321221	1-C22
EC321221	3-C26
EC329771	5-C5
EC335992	1-C8
EC336126	1-C12
EC342821	2-C34,35
EC350706	2-C23
EC350706	2-C28,29
EC350706	2-C38,39
EC362125	4-C12
EC362158	2-C30,31
EC362158	4-C10
EC379765	3-C25
EC390633	4-C6
EC404256	2-C1to13
EC404256	3-C11
EC423145	3-C41
EC443654	3-C29
EC444374	3-C34
EC450066	3-C5
EC450270	1-C15
EC450281	3-C15
EC451451	3-C30,31
EC451451	5-C3,4
EC479621	3-C23
EC483300	2-C14
EC487394	3-C18
EC487394	3-C21
EC492142	1-C16,17
EC492142	3-C1,2
EC492142	3-C4
EC492142	3-C6to10
EC493323	4-C14
EC493637	4-C7
EC514708	3-C16
EC516723	4-C15
EC516745	3-C28
EC516767	1-C1
EC516767	3-C19
EC516767	4-C20
EC522527	1-C9
EC523282	4-C3
EC524957	1-C5
EC539842	2-C18,19
EC551160	1-C18
EC551160	6-8
EC565345	1-C20
EC604440	1-C2
EC604440	1-C13
EC604440	4-C4
EC604528	1-C14
EC616342	3-C35,36
EC616342	3-C39,40
EC618513	3-C38
EC621742	5-C6
ED219464	3-D1,2,3
ED224526	1-D2,3
ED417442	4-D2
ED417442	5-D1
ED428264	2-D1
ED490511	1-V1
ED514721	1-D1
ED539976	1-D4
ED562386	5-D2
ED604541	2-D2,3
EF563681	6-124x
EF563681	7-35x
EF563692	6-123x
EF563703	6-70x
EF563703	7-36x
EF602550	6-122x
EF611425	6-120x
EI443744	2-IC2
EI605013	4-IC1
EJ233370	6-68
EJ254970	6-99
EJ299316	6-62
EJ454770	6-11
EJ514822	1-4
EJ539447	6-87
EJ539662	1-6
EJ539662	2-2
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EJ550912	7-38x
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EL604348	6-116
EL604372	6-27
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EO443766	2-L2
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EO537232	2-T1
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ER211320	6-46x
ER357535	6-64x
ER380417	3-FL1
ER439132	1-R28
ER452777	6-65x
ER539818	2-FL1,2
ER552712	1-R25,26
ER617725	1-R18
ES422436	6-41
ES469541	6-6
ES602594	6-7x
ES604427	4-SW1
ES623970	3-SW2
ES623981	3-SW1
ES623992	5-SW1
ET342707	2-TR4to6
ET453486	5-TR1
ET485291	2-IC1
ET517263	3-TR4,5
ET554016	2-TR1to3
ET554725	1-TR5
ET554736	1-TR3,4
ET556086	1-TR6,7,8
ET591366	3-TR1,2,3
ET601312	4-TR1
ET604124	1-TR1,2
EV484863	2-VR1
EV560136	4-VR2
EV604383	6-29x
EV604394	6-48x
EV604438	4-VR1
EV604462	1-VR1
EV604473	1-VR2,3
EV604484	1-VR4
EW315448	6-73x
EW374894	6-71
EW516600	6-72x
EZ246936	6-74x
EZ382263	6-57
EZ486257	6-58
EZ607825	1-2
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MB551103	7-17
MB605880	7-19
MB609851	7-22
MI632744	6-35
MR530651	6-17
MR530662	6-20
MR530662	6-94
MR530706	6-104
MT553948	6-112
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SM585448	6-129x
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SP606047	7-31
SP607432	7-10x
SP607443	7-28
SP607601	6-38x
SP607634	7-2x
SP607746	7-1
SP607803	6-37
SP610650	6-40x
SP610694	6-39x
SZ457975	7-9
TA207347	6-113
TA510502	6-26
TA530741	6-34
TA530910	6-49
TA545905	7-5
TA560092	7-40x
TA605878	6-126x
TA605924	6-76
TA606058	6-77
TA607285	6-117x
TA607307	6-14
TA607318	6-23x
TA607410	7-6
TA607522	6-47x
TA607612	6-2x
TA607768	7-7x
TA607836	6-79
TA607858	6-1
TA607860	6-91
TA607871	6-93
TA607882	7-8
TA607893	6-15
TA607904	6-31
TA607926	6-115
TA607937	6-85
TA607948	6-9
TA607950	6-16
TA607961	6-19
TA607972	6-22
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TA609816	7-4
TA611436	6-92
TA611447	7-34x
TA611965	6-102x
TA614935	6-100
TA614946	6-114
TA616847	6-103
TA618491	6-51
TA625847	6-52
TA626477	6-24
ZG549011	6-106x
ZS325495	6-10
ZS325495	6-78
ZS379350	1-3
ZS421740	6-44x
ZS421806	6-105x
ZS422076	6-5
ZS422076	6-109
ZS444240	6-36x
ZS444240	7-23x
ZS447761	6-50x
ZS447761	6-63
ZS447761	6-97
ZS447761	7-29x
ZS447840	6-80x
ZS447840	7-11x
ZS462194	6-25x
ZS462802	6-90x
ZS530673	6-21
ZS530673	6-95
ZS565942	7-13x
ZS570385	6-61x
ZS608185	6-42
ZS608488	6-69
ZW260122	6-33x
ZW270123	6-32x
ZW270191	6-13x
ZW273745	6-83x
ZW273756	6-45x
ZW273756	6-84x
ZW273802	6-59x
ZW273914	6-54x
ZW420682	6-55x
ZW482927	6-12x
ZW493312	7-20x
ZW526577	7-14
ZW552600	6-53
ZW552824	7-33
ZW602381	7-32
ZW604416	6-56x
ZW621360	6-18x
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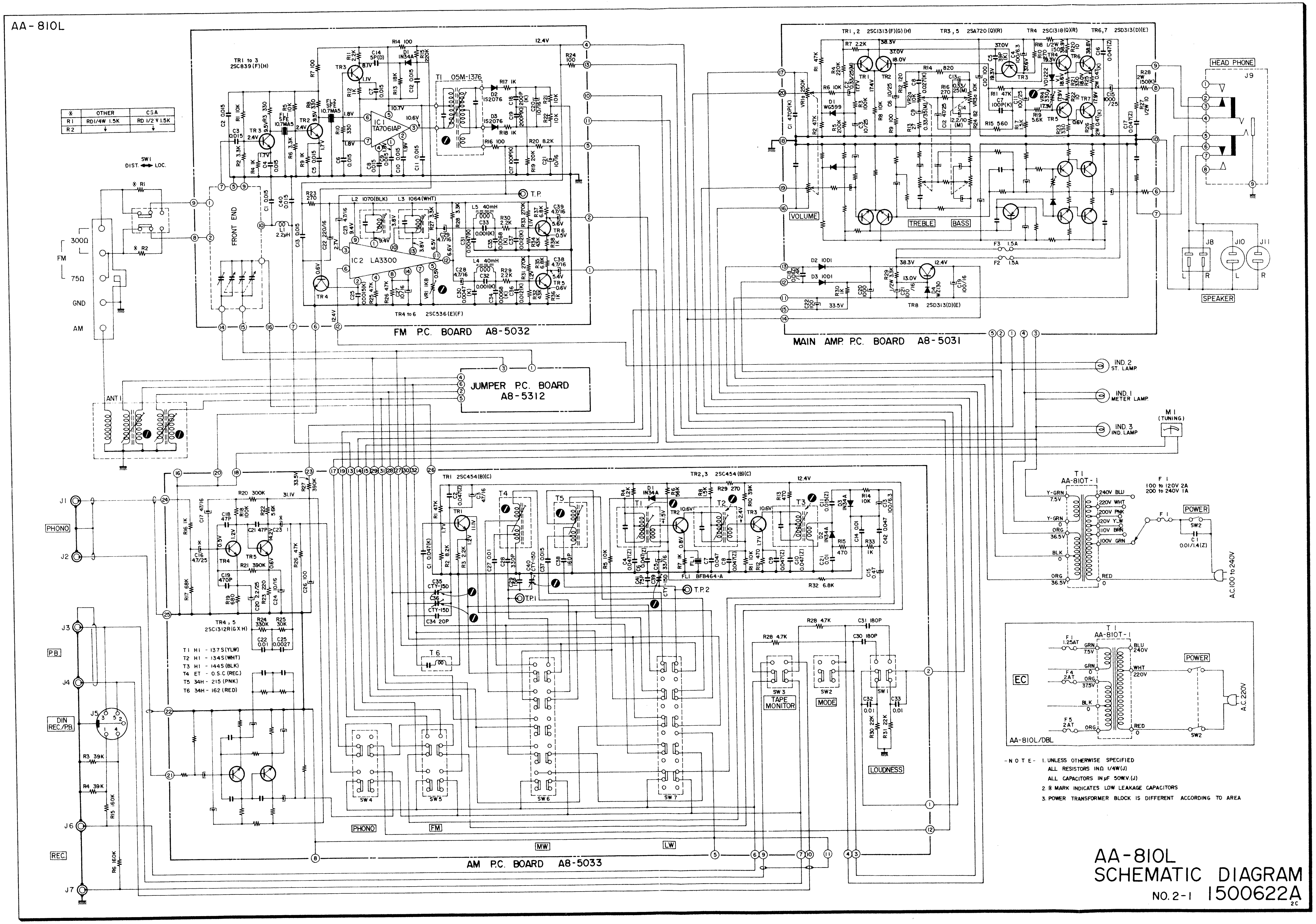

AA-810L
FM P.C. BOARD A8-5032
MAIN AMP. P.C. BOARD A8-5031
JUMPER P.C. BOARD A8-5312
AM P.C. BOARD A8-5033
FRONT END
IC1 TA7061AP
IC2 LA3300
T1 05M-1376
TR1 to 3 2SC839(F)(H)
TR4 to 6 2SC536(E)(F)
TR1, 2 2SC1313(F)(G)(H)
TR3, 5 2SA720(Q)(R)
TR4 2SC1318(Q)(R)
TR6, 7 2SD313(D)(E)
TR8 2SD313(D)(E)
TR1 2SC454(B)(C)
TR2, 3 2SC454(B)(C)
FL1 BFB464-A
SW1 DIST. ⟷ LOC.
300Ω
FM
75Ω
GND
AM
ANT1
VOLUME
TREBLE
BASS
HEAD PHONE
J9
J8
J10
J11
SPEAKER
IND.2 ST. LAMP
IND.1 METER LAMP
IND.3 IND. LAMP
M1 (TUNING)
T1 AA-810T-1
F1 100 to 120V 2A 200 to 240V 1A
POWER
A.C.100 to 240V
EC
AA-810L/DBL
A.C.220V
PHONO
P.B.
DIN REC/PB
REC.
SW3 TAPE MONITOR
SW2 MODE
SW1 LOUDNESS
SW4
SW5
SW6
SW7
PHONO
FM
MW
LW
T.P.
T.P.1
T.P.2

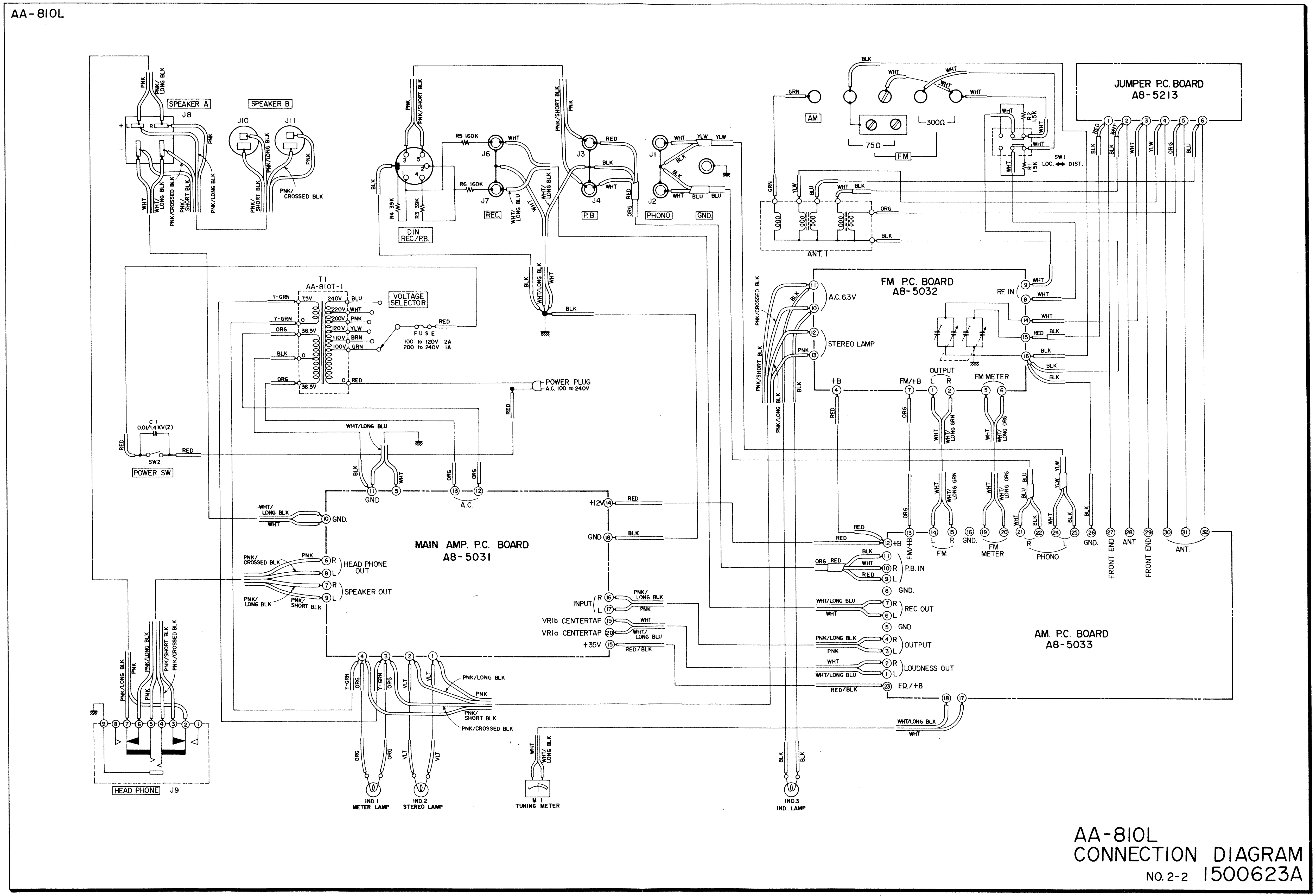
※	OTHER	CSA
R1	RD1/4W 1.5K	RD 1/2 W 1.5K
R2	↓	↓

TR4, 5
2SC1312R(GXH)

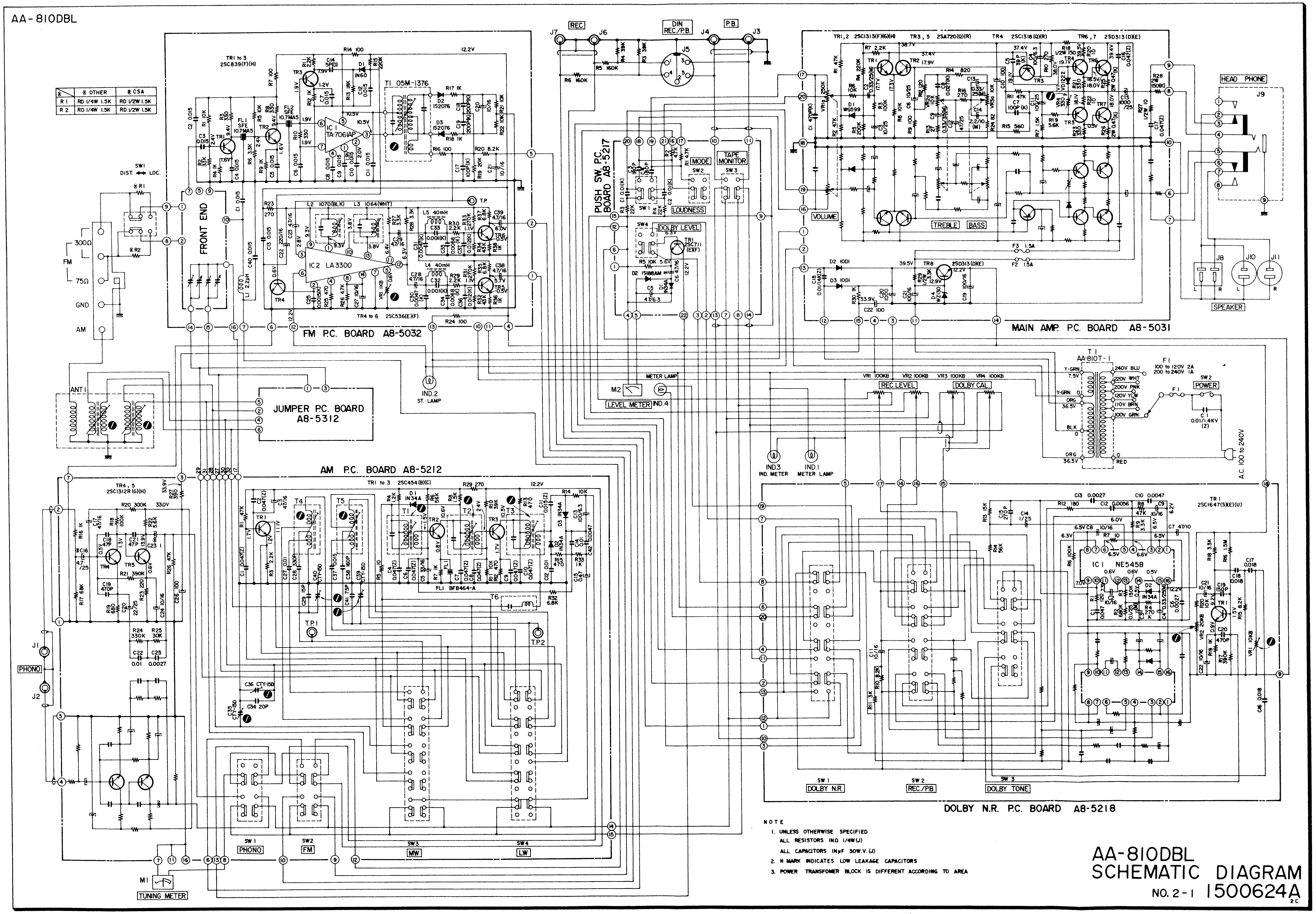
T1 H1 - 137S(YLW)
T2 H1 - 134S(WHT)
T3 H1 - 144S(BLK)
T4 ET - O.S.C (REC.)
T5 34H - 215 (PNK)
T6 34H - 162 (RED)

-NOTE-
1. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W(J)
ALL CAPACITORS IN µF 50W.V.(J)
2. ※ MARK INDICATES LOW LEAKAGE CAPACITORS
3. POWER TRANSFORMER BLOCK IS DIFFERENT ACCORDING TO AREA

AA-810L
SCHEMATIC DIAGRAM
NO.2-1 1500622A
2C


AA-810L
SPEAKER A
J8
SPEAKER B
J10
J11
PNK
PNK/LONG BLK
PNK/SHORT BLK
PNK/CROSSED BLK
WHT/LONG BLK
DIN REC./P.B.
R5 160K
R6 160K
R4 39K
R3 39K
J6
J7
REC.
J3
J4
P.B.
J1
J2
PHONO
GND.
AM
75Ω
300Ω
FM
ANT. 1
JUMPER P.C. BOARD A8-5213
SW1 LOC. ↔ DIST.
R1 1.5K
R2 1.5K
T1 AA-810T-1
7.5V
36.5V
240V
220V
200V
120V
110V
100V
VOLTAGE SELECTOR
FUSE
100 to 120V 2A
200 to 240V 1A
POWER PLUG A.C. 100 to 240V
C1 0.01/1.4KV(Z)
SW2
POWER SW
FM P.C. BOARD A8-5032
A.C. 6.3V
STEREO LAMP
RF. IN
+B
FM/+B
OUTPUT L R
FM METER
MAIN AMP. P.C. BOARD A8-5031
GND.
A.C.
+12V
HEAD PHONE OUT
SPEAKER OUT
INPUT R L
VRIb CENTERTAP
VRIa CENTERTAP
+35V
AM. P.C. BOARD A8-5033
P.B. IN
REC. OUT
OUTPUT
LOUDNESS OUT
EQ./+B
FM METER
PHONO
FRONT END
ANT.
HEAD PHONE J9
IND.1 METER LAMP
IND.2 STEREO LAMP
M1 TUNING METER
IND.3 IND. LAMP

AA-810L
CONNECTION DIAGRAM
NO. 2-2 1500623A


AA-810DBL
FRONT END
FM P.C. BOARD A8-5032
IC1 TA-7061AP
IC2 LA3300
T1 05M-1376
TR1 to 3 2SC839(F)(H)
TR4 to 6 2SC536(E)(F)
SW1 DIST. ⟷ LOC.
300Ω
FM
75Ω
GND
AM
ANT1
JUMPER P.C. BOARD A8-5312
IND.2 ST. LAMP
AM P.C. BOARD A8-5212
TR1 to 3 2SC454(B)(C)
FL1 BFB464-A
T.P.1
T.P.2
TR4, 5 2SC1312R(G)(H)
J1
PHONO
J2
SW1 PHONO
SW2 FM
SW3 MW
SW4 LW
M1
TUNING METER
J7
REC
J6
DIN REC/P.B.
J5
J4
P.B.
J3
PUSH SW. P.C. BOARD A8-5217
SW1 LOUDNESS
SW2 MODE
SW3 TAPE MONITOR
SW4 DOLBY LEVEL
TR1 2SC711 (E)(F)
M2
LEVEL METER
METER LAMP
IND.4
IND3 IND. METER
IND.1 METER LAMP
VR1 100KB
VR2 100KB
VR3 100KB
VR4 100KB
REC. LEVEL
DOLBY CAL.
TR1, 2 2SC1313(F)(G)(H)
TR3, 5 2SA720(Q)(R)
TR4 2SC1318(Q)(R)
TR6, 7 2SD313(D)(E)
TR8 2SD313(D)(E)
VOLUME
TREBLE
BASS
MAIN AMP. P.C. BOARD A8-5031
HEAD PHONE
J9
J8
J10
J11
SPEAKER
T1 AA-810T-1
F1 100 to 120V 2A 200 to 240V 1A
SW2 POWER
A.C. 100 to 240V
IC1 NE545B
TR1 2SC1647(S)(E)(U)
SW1 DOLBY N.R.
SW2 REC./P.B.
SW3 DOLBY TONE
DOLBY N.R. P.C. BOARD A8-5218

※	※ OTHER	※ CSA
R 1	RD 1/4W 1.5K	RD 1/2W 1.5K
R 2	RD 1/4W 1.5K	RD 1/2W 1.5K

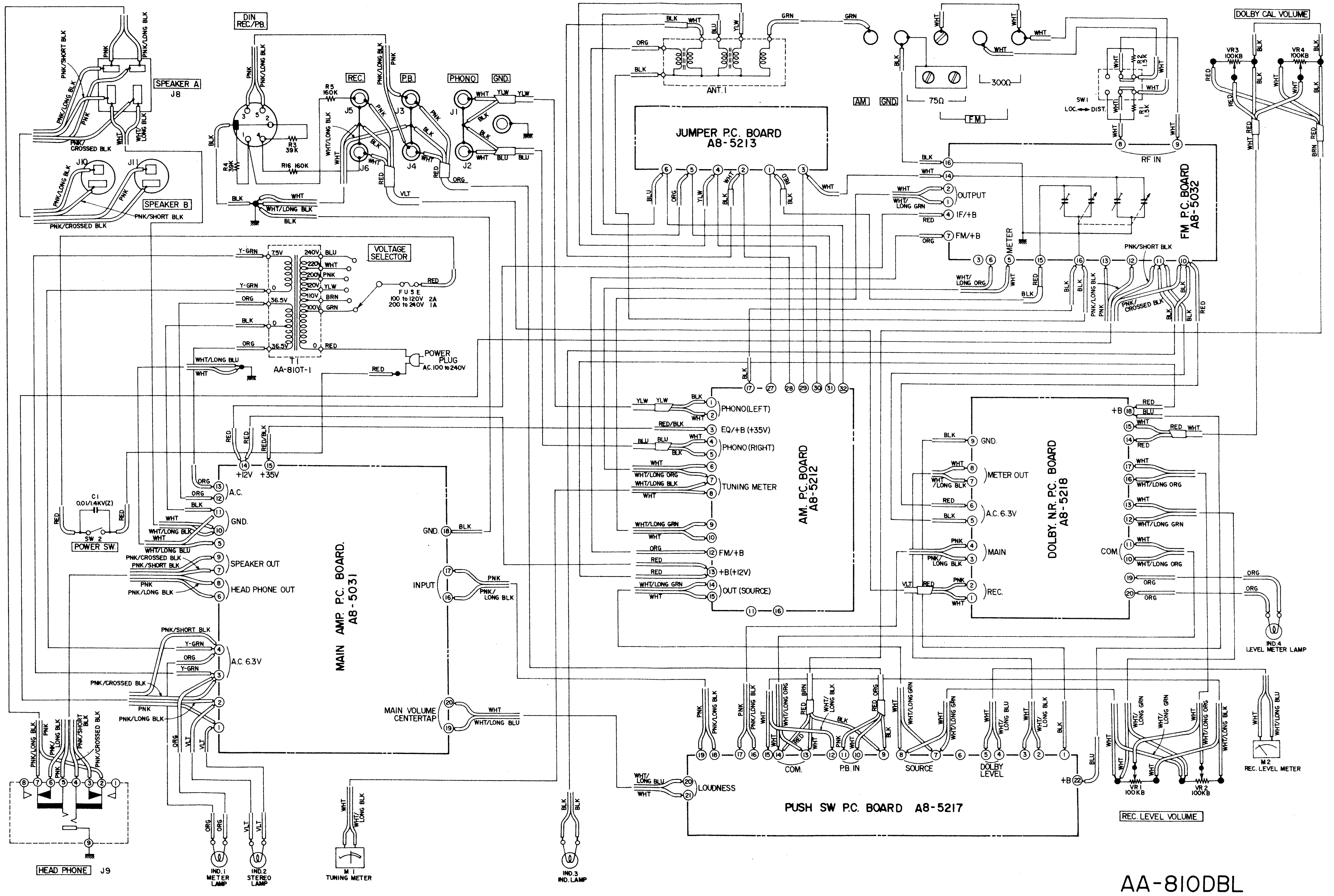
NOTE

1. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS INΩ 1/4W (J)
   ALL CAPACITORS INμF 50W.V. (J)
2. ※ MARK INDICATES LOW LEAKAGE CAPACITORS
3. POWER TRANSFOMER BLOCK IS DIFFERENT ACCORDING TO AREA

AA-810DBL
SCHEMATIC DIAGRAM

NO. 2-1 1500624A 2C

AA-810DBL


SPEAKER A
J8
SPEAKER B
J10
J11
DIN REC/PB
REC.
P.B.
PHONO
GND
J1
J2
J3
J4
J5
J6
R3 39K
R4 39K
R5 160K
R16 160K
ANT.1
AM
GND
75Ω
300Ω
FM
SW1 LOC.↔DIST.
R1 1.5K
R2 1.5K
DOLBY CAL VOLUME
VR3 100KB
VR4 100KB
JUMPER P.C. BOARD A8-5213
FM P.C. BOARD A8-5032
RF IN
OUTPUT
IF/+B
FM/+B
METER
VOLTAGE SELECTOR
240V
220V
200V
120V
110V
100V
7.5V
36.5V
FUSE
100 to 120V 2A
200 to 240V 1A
T1
AA-810T-1
POWER PLUG
AC.100 to 240V
C1 0.01/1.4KV(Z)
SW 2
POWER SW.
MAIN AMP. P.C. BOARD A8-5031
+12V
+35V
A.C.
GND.
SPEAKER OUT
HEAD PHONE OUT
A.C. 6.3V
INPUT
MAIN VOLUME CENTERTAP
AM. P.C. BOARD A8-5212
PHONO(LEFT)
EQ/+B (+35V)
PHONO(RIGHT)
TUNING METER
FM/+B
+B(+12V)
OUT (SOURCE)
DOLBY. N.R. P.C. BOARD A8-5218
+B
GND.
METER OUT
A.C. 6.3V
MAIN
REC.
COM.
IND.4 LEVEL METER LAMP
PUSH SW P.C. BOARD A8-5217
LOUDNESS
COM.
P.B. IN
SOURCE
DOLBY LEVEL
VR1 100KB
VR2 100KB
REC. LEVEL VOLUME
M2 REC. LEVEL METER
HEAD PHONE J9
IND.1 METER LAMP
IND.2 STEREO LAMP
M1 TUNING METER
IND.3 IND. LAMP

AA-810DBL
CONNECTION DIAGRAM
NO. 2-2 1500625A